PETER BENT BRIGHAM HOSPITAL --- BOSTON

NINETEENTH ANNUAL REPORT FOR THE YEAR 1932

1933

FORM OF BEQUEST

I give and bequeath to the Peter Bent Brigham Hospital, a corporation established under the laws of the Commonwealth of Massachusetts, the sum of dollars, the same to be used for the furtherance of its charitable work.

22503068818

NINETEENTH ANNUAL REPORT

OF THE

PETER BENT BRIGHAM HOSPITAL

FOR THE YEAR

1932

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President's Report

The Trustees regret to have to record the death of William Ropes Trask on February 1, 1933. Mr. Trask was appointed in 1902 a charter member of the Corporation and was of invaluable assistance in the early days of organizing and building the Hospital. A faithful member as long as his health would permit, his wise counsel will be missed.

The Trustees regret to hear of the death of Dr. William T. Councilman on May 27, 1933. Dr. Councilman served the Hospital successfully and faithfully as Chief of the Pathological Service from 1912 to 1916. He was Shattuck Professor of Pathological Anatomy, Harvard Medical School, from 1892 to 1913, and received honors from several universities in the United States. He will be very much missed by the staff of the Hospital, at which he was a frequent visitor since his retirement.

Dr. Harvey Cushing came to the age limit of service at the Hospital and retired during the past year as Chief of the Surgical Service. The Trustees have always appreciated the good fortune of the Hospital in having Dr. Cushing as its surgical chief. He has been a leader in his profession, to whom American and European honors have been given. He has been a successful and inspiring teacher, bringing about a closer relationship between student and patient in the Hospital, until now the student begins his practice of medicine almost as soon as he enters the medical school. He has taken his part in teaching and inspiring some of the men whose names are mentioned below in this report as having

earned positions of high honor. We appreciate the value of his contributions to surgical science, and the Hospital will always be glad to aid him in any way possible in his further work.

We are fortunate also in that Dr. Elliott C. Cutler has become Chief of the Surgical Service. Graduating from the Harvard Medical School in 1913, he served as House Officer in this Hospital in 1913, 1914, and 1915. After he had served as Major, M. C., U. S. Army, D. S. M., he became Resident Surgeon in this Hospital, serving until 1921, when he became Associate in Surgery in the hospital and Instructor in Surgery at Harvard until 1924. He was appointed Professor of Surgery, Western Reserve University Medical School and Chief Surgeon at the Lakeside Hospital in Cleveland, where he served until he resigned to come to this Hospital.

It is with just pride that the Hospital calls attention to the following men who have received a part of their education and experience in surgery and medicine in this Hospital and who have been called to positions of importance in other hospitals and in medical schools in this country.

MEDICAL

Hilding Berglund, Asst. Res. Phys., P. B. B. H., 1921-23; Assoc. in Med., *ibid.*, 1923-25; now Prof. of Med., Univ. of Minn., and Chief, Dept. of Med., Univ. Hospitals, Minneapolis.

Francis G. Blake, Med. House Officer, P. B. B. H., 1913-14; Asst. Res. Phys., *ibid.*, 1914-15; Res. Phys., *ibid.*, 1915-16; now Prof. of Med., Yale Univ. School of Med., and Phys.-in-Chief, New Haven Hosp.

Herrmann Blumgart, Med. House Officer, P. B. B. H., 1921-22; now Assoc. Prof. of Med., Harv.; Visit. Phys., Beth Israel Hosp., and Director of Med. Research, *ibid.*

Walter M. Boothby, Supervisor of Anesthesia, P. B. B. H., 1913-16, now Assoc. Prof. of Med., Mayo Foundation, Univ. of Minn., and Head of Sec. of Clin. Metabolism, Mayo Clin., Rochester, Minn.

William W. Cadbury, Asst. Res. Phys., P. B. B. H., 1915-16; now Superintendent and Internist, Canton Hospital, Canton, China.

Cecil Kent Drinker, Med. House Officer, P. B. B. H., 1914-15; Res. Phys., *ibid.*, 1917; Prof. of Phys., Harv., and Asst. Dean, Harv. School of Public Health.

Channing Frothingham, Phys., P. B. B. H., 1912-32; now Physician-in-Chief, Faulkner Hospital, Jamaica Plain, Mass.

Worth Hale, Assoc. in Med., P. B. B. H., 1917-18; Assoc. Prof. of Pharm. and Asst. Dean, Harv. Med. School.

Paul D. Lamson, Asst. Res. Phys., P. B. B. H., 1913-14; now Prof. of Pharm., Vanderbilt Univ. School of Med.

George R. Herrmann, Med. House Officer, P. B. B. H., 1918-19; now Prof. of Clin. Med., Univ. of Texas.

Wilson George Smillie, Med. House Officer, P. B. B. H., 1912-14; Asst. Res. Phys., *ibid.*, 1914; now Prof. of Public Health Administration, Harv. Univ.

Cyrus C. Sturgis, Med. House Officer, P. B. B. H., 1917-18; Asst. Res. Phys., *ibid.*, 1919-20; Res. Phys., *ibid.*, 1920-22; Assoc. in Med., *ibid.*, 1922-25; Phys., *ibid.*, 1925-27; now Prof. of Int. Med., Univ. of Mich., and Director, Dept. of Int. Med., Univ. Hospitals.

Joseph T. Wearn, Med. House Officer, P. B. B. H., 1917-18; Asst. Res. Phys., *ibid.*, 1919-21; now Prof. of Med., Western Reserve Univ., and Director of Med., Lakeside Hosp., Cleveland, Ohio.

SURGICAL

Percival Bailey, Asst. Res. Surg., P. B. B. H., 1919; Assoc. in Surg., *ibid.*, 1920-21; Jr. Assoc. in Surg., *ibid.*, 1922-23; Assoc. in Surg., *ibid.*, 1926-28; now Prof. of Neurol., Univ. of Chicago.

Clarence E. Bird, Surg. House Officer, P. B. B. H., 1923-24; Asst. Res. Surg., *ibid.*, 1925-26; Res. Surg., *ibid.*, 1926-28; now Prof. of Surg., Univ. of Louisville, and Surg.-in-Chief, Louisville City Hosp.

Stanley Cobb, Surg. House Officer, P. B. B. H., 1914-16; now Prof. Neuropathol., Harv., and Director, Neurol. Labs., Boston City Hosp.

Elliott C. Cutler, Surg. House Officer, P. B. B. H., 1913-15; Res. Surg., *ibid.*, 1919-21; Assoc. in Surg., *ibid.*, 1921-24; Surg.-in-Chief, P. B. B. H., and Moseley Prof. of Surg., Harv.

Loyal Davis, Jr. Assoc. in Surg., P. B. B. H., 1924; now Prof. of Surg., Northwestern Univ., Chicago, Ill.

Gilbert Horrax, Surg. House Officer, P. B. B. H., 1913-14; Asst. Res. Surg., *ibid.*, 1915-16; Assoc. in Neurol. Surg., *ibid.*, 1919-28; Sr. Assoc. in Neurol. Surg., 1928-32; now in charge of Neuro-Surgery, The Lahey Clinic, Boston, Mass.

Daniel C. Elkin, Surg. House Officer, P. B. B. H., 1921-22; Asst. Res. Surg., *ibid.*, 1922-23; Res. Surg., *ibid.*, 1923; Prof. of Surg., Emory Univ., and Surg.-in-Chief, Univ. Hospitals.

John Fulton, Assoc. in Neurol. Surg., P. B. B. H., 1928; now Sterling Prof. of Phys., Yale.

Emil Goetsch, Res. Surg., P. B. B. H., 1912-15; now Prof. of Surg. and Surg.-in-Chief, Long Island Coll. Hosp., Brooklyn, N. Y.

Samuel C. Harvey, Surg. House Officer, P. B. B. H., 1914-15; Asst. Res. Surg., *ibid.*, 1916-17; Prof. of Surg., Yale.

Emile Holman, Asst. Res. Surg., P. B. B. H., 1923; Res. Surg., *ibid.*, 1923-24; now Prof. of Surg., Stanford Univ. Med. School.

William S. McCann, Surg. House Officer, P. B. B. H., 1915-16; now Prof. of Med., Univ. of Rochester, Rochester, N. Y.

Edwin P. Lehman, Surg. House Officer, P. B. B. H., 1914-15; now Prof. of Surg. and Gynecol., Univ. of Va.

John J. Morton, Surg. House Officer, P. B. B. H., 1913-14; now Prof. of Surg., Univ. of Rochester, Rochester, N. Y.

Wilder Penfield, Surg. House Officer, P. B. B. H., 1918-19; now Director, Montreal Neurol. Inst.

Frederick Schreiber, Asst. Res. Surg., P. B. B. H., 1928-29; now Prof. of Brain and Nerve Surgery, Detroit College of Medicine and Surgery.

George B. Wislocki, Assoc. in Surg., P. B. B. H., 1920; now Parkman Prof. of Anatomy, Harv.

PATHOLOGICAL

Charles L. Connor, Res. Pathol., P. B. B. H., 1925-26; now Prof. of Pathol., Univ. of Calif. Med. School.

Ernest W. Goodpasture, Res. Pathol., P. B. B. H., 1915-17; now Prof. of Pathol., Vanderbilt Univ.

During the past year, the following eminent physicians have served as temporary Chiefs of Service:

Vittorio Putti, Director of the Orthopedic Institute of Bologna, Italy, served as Surgeon-in-Chief *pro tem* from May 30 to June 6, 1932.

George J. Heuer, Professor of Surgery at Cornell Medical School and Surgeon-in-Chief of the New York Medical Center, served as Surgeon-in-Chief *pro tem* from July 12 to 16, 1932. We are grateful to them for their inspiration as teachers and clinicians.

The hospital acknowledges with gratitude the gifts received, a list of which will be found on the pages immediately following this report.

Our thanks are due the Ladies' Social Service Committee for their continued interest in that department and for their successful efforts in raising money to carry on the work.

We express our appreciation and gratitude of the faithful service rendered by the staff and employees during the past year.

CHARLES P. CURTIS,
President.

DECEMBER 31, 1932.

Memorial Upon the Death of
William Ropes Trask

William Ropes Trask, a charter member of this Corporation, died February 1, 1933. In his long term of service, he showed a deep and unflagging interest in all problems connected with the Hospital, in those more perplexing ones involved in its organization and start, in those called out by its expanding activities and more difficult finance, and in recent months, although afflicted by a most distressing physical infirmity that would have excused all active efforts he was unfaltering in his attendance at meetings and alert in considering any questions brought up for discussion. His fellow members desire to spread upon their records an expression of their grateful appreciation of his helpful activities during more than thirty years, and their admiration for the cheerful courage with which he bore his great affliction.

Memorial Upon the Death of
William Thomas Councilman

We regret to record the death of William T. Councilman who served the Hospital with distinction as Pathologist from 1912 until he reached the age limit in 1916. He was a wise counselor in the organization of the Hospital from the time of its foundation. We herein express our appreciation of his great ability and our gratitude for his valuable services.

Gifts to the Hospital During the Year 1932

Boston Firemen's Relief Fund for a free bed for year 1932		$ 200.00
Mr. Charles P. Curtis for a free bed for year 1932		100.00
Mr. Charles P. Curtis for a free bed for year 1932 in memory of Mrs. Margaret P. Russell		100.00
Mrs. Richard C. Curtis for a free bed for year 1932		100.00
Mrs. F. S. Parker for a free bed for year 1932		100.00
Mr. R. L. Agassiz, New York		50.00
Legacy under will of Frederick J. Kennedy		25,000.00
United Boston Unemployment Relief Campaign for the sick unemployed		2,500.00
United Boston Unemployment Relief Campaign for the Social Service Department		1,250.00
Mr. G. Gorham Peters gift to the G. Gorham Peters Fund		2,500.00
Anonymous gift through Dr. Henry A. Christian to the Francis Weld Peabody Loan Fund		200.00
Mrs. Almena S. Gray gifts to the Philip H. Gray Fund for the furtherance of Neuro-Surgery		10,000,00
Committee of the Permanent Charity Fund, Inc., to be used for the general purposes of the Social Service Department		2,025.00
Carrie M. Hall Fund:		
The Peter Bent Brigham Hospital School of Nursing Alumnæ Association	$800.00	
Mr. Charles P. Curtis	200.00	
		1,000.00
Mr. William Amory for general purposes		495.00
Mr. William Amory for the Christmas Fund		5.00
New England Trust Company, Trustee under will of Photius Fiske for needy negro patients		225.00

Gifts to Social Service Fund

Mrs. F. W. Sargent	$1,000.00	Mrs. James J. Storrow	15.00
Mrs. H. M. Burr	15.00	Mr. A. Lawrence Lowell	25.00
Mrs. P. H. Lombard	15.00	Mrs. Richard C. Paine	50.00
Mrs. Sidney M. Williams	5.00	Mrs. Eliot Hubbard	10.00
Mrs. George E. Warren	25.00	Mrs. William Amory	10.00
Mrs. George R. Fearing	20.00	Mrs. Oliver Ames	15.00
Mrs. Henry V. Greenough	10.00	Mrs. Francis C. Hall	10.00
Miss Frances J. Williams	100.00	Miss Louisa Hunnewell	25.00
Mr. Theodore Lyman	100.00	Mrs. Richard T. Fisher	15.00
Mrs. Hugh D. Scott	5.00	Mrs. John L. Thorndike	10.00

Mr. T. Hassall Brown...	5.00
Mrs. A. F. Bemis.....	25.00
Mrs. F. B. Crowninshield	10.00
Mrs. R. H. Stevenson....	5.00
Mrs. R. H. Emmons.....	25.00
Mrs. H. A. Morss.....	25.00
Mrs. Donald McKay Frost	50.00
Mrs. H. D. Chandler....	5.00
Mrs. R. T. Paine, 2nd...	25.00
Mrs. Philip Dalton.....	5.00
Mrs. R. B. Merriman....	25.00
Proceeds from two entertainments	511.00
Mrs. W. R. Peabody.....	10.00
Dr. Harvey Cushing.....	100.00
Miss Edith Fitz.....	10.00
Miss Ellen Bullard.....	10.00
Mrs. Neal Rantoul.....	25.00
Proceeds luncheon and fair	525.13
Miss Hersey's School Association	50.00
Mrs. Hilbert F. Day.....	2.00
Mrs. W. D. Sohier.....	5.00
Mrs. William Whitman, Jr.	10.00
Mrs. Frederic Winthrop..	20.00
Mr. Charles P. Curtis....	50.00
Mrs. Shepherd Brooks....	100.00
Mrs. L. A. Frothingham.	25.00
Mrs. Ellerton James.....	5.00
Miss E. R. Sturgis.....	15.00
Mrs. Stephen M. Weld..	5.00
Mrs. Nathaniel Thayer...	25.00
Mrs. F. Murray Forbes..	75.00
Mrs. John L. Grandin....	10.00
Mrs. Malcolm Donald....	10.00
Mrs. Richard C. Curtis..	10.00
Mrs. W. Y. Peters.....	25.00
Mrs. E. J. Holmes.....	5.00
Mr. William Amory.....	500.00
Mrs. Robert Saltonstall...	25.00
Mrs. William Amory.....	25.00
Miss Ida G. Beale.....	5.00
Mrs. W. T. Councilman..	5.00
Mr. F. Douglas Cochrane	100.00
Mrs. Arthur B. Denny..	25.00
Mrs. Charles L. Slattery	5.00
Mrs. Philip Dexter.....	10.00
Miss Amelia Peabody....	15.00
Mrs. Edward W. Grew..	5.00
Mr. Gordon Dexter.....	25.00
Mrs. Ralph B. Williams.	50.00
Mrs. Alfred L. Lustig...	25.00
Mrs. Henry B. Cabot....	10.00
Mrs. Everett Morss.....	5.00
Mrs. George H. Lyman..	10.00
Mrs. Charles P. Curtis...	50.00
Mrs. William T. Aldrich.	10.00
Mrs. Reginald Fitz.....	20.00
Miss Harriot S. Curtis...	10.00
Mr. George E. Cabot....	25.00
Mrs. Arthur G. Rotch...	5.00
Dr. and Mrs. David Cheever	60.00
Mrs. N. P. Hallowell....	25.00
Miss Sarah F. Bremer..	25.00
Mr. L. H. H. Johnson...	50.00
Mrs. James Jackson.....	15.00
Mrs. John P. Reynolds..	12.00
Mrs. H. B. Chapin.....	10.00
Mrs. Samuel E. Guild....	5.00
Mrs. John S. Ames.....	10.00
Mrs. Henry Lyman.....	15.00
Mr. H. J. Sargent.....	25.00
Mrs. William Emerson...	50.00
Mrs. J. W. Farley.....	5.00
Mrs. Henry G. Brooks..	5.00
Mrs. Joseph B. Howland.	10.00
Mrs. John C. Gray.....	25.00
Mrs. Horace Binney.....	2.00
Mrs. G. P. Denny.....	25.00
Miss Helen Cheever.....	15.00
Mrs. Edward A. Taft...	10.00
Mrs. Moses Williams.....	5.00
Mrs. Christian A. Herter	10.00
Mrs. Franklin H. Palmer	10.00
Mr. F. W. Hunnewell...	30.00
Mrs. Gilbert Horrax.....	10.00
Mr. Gordon Dexter.....	25.00
Miss Mary Curtis.....	5.00
Mrs. Amory A. Lawrence	25.00
Mrs. Robert W. Lovett..	25.00
Mrs. George B. Blake...	5.00
Mrs. Walter Hunnewell..	25.00
Miss Rose L. Dexter....	25.00
Mrs. James J. Storrow..	15.00
Mrs. John C. Lee.....	10.00
Mrs. Joseph Warren.....	25.00

GIFTS TO THE HOSPITAL

Mrs. Henry Wolcott.....	5.00
Dr. and Mrs. John Homans	10.00
Mrs. Harvey Cushing....	100.00
Mrs. J. Harleston Parker	10.00
Mrs. Robert G. Shaw....	10.00
Mrs. J. A. L. Blake.....	15.00
Miss Katherine Homans.	15.00

Gifts for Social Service Special Gift Fund

Mrs. Samuel Levine.....$	5.00
Mrs. Joseph Warren.....	20.00
International Institute....	4.00
Cambridge Visiting Nurses Association	1.95
We Ten	3.00
American Invalid Aid Society	3.00
Mrs. Elizabeth H. Kidder	10.00
Boston Provident Association	49.90
Free Medical Association, Chelsea	5.00
Eckley Fund	45.00
Industrial Aid	15.00
Georgie Lee Special Fund	15.00
Home for Aged Men—for outside beneficiaries given through Miss Christine McLeod	99.45
Mary A. Crabtree Christmas Fund	75.00
Frederick E. Weber Charities Association.	315.00
Lend-a-Hand Society.....	88.95
Home for Aged Colored Women	39.05
American Red Cross.....	2.50
Mrs. George Upton	5.00
Mrs. Margaret R. Parkman	30.00
Chelsea Hebrew Ladies' Charity Association...	5.00
Department of Public Welfare, Boston.....	26.50
Philip Dlugin	12.00
Jewish Charities	10.00
Mrs. Helen Robinson....	5.00
Industrial Aid Relief Account	14.00
Benton Fund	289.00
Anonymous	661.15

Free Bed Fund

Alexander Cochrane Free Bed	$10,000.00
Walter Hunnewell Free Bed	10,000.00
Miss Aimee Lamb (In memory of Mrs. Winthrop Sargent)	5,000.00
Carrie M. Hall Free Bed ..... (Alumnae Association of the Peter Bent Brigham Hospital School of Nursing)	6,000.00
Henry Saltonstall Howe Free Bed....	5,000.00
Theodore Lyman Free Bed	1,000.00 for ten years
Boston Firemen's Relief Association Free Bed	200.00 for one year
Mrs. F. S. Parker Free Bed	100.00 for one year

Report of the Treasurer

A STATEMENT of receipts of income from investments and of payments therefrom out of the office of the Treasurer for the year ending December 31, 1932 is as follows:

INCOME

Real Estate Receipts:		
Rents	$127,519.02	
Taxes paid by tenants	10,489.73	
Insurance paid by tenants	1,820.32	
		$139,829.07
Interest on Investments:		
On bonds	$ 63,601.21	
On mortgages	7,914.25	
	$ 71,515.46	
Dividends	18,586.50	
		90,101.96
Bank interest		381.47
Total income		$230,312.50

EXPENDITURES

Taxes	$ 80,976.35	
Building repairs, etc.	11,845.87	
Insurance	4,461.13	
Brokerage on leases	697.50	
Portland Street Power Plant deficit	1,120.28	
Salaries	7,140.00	
Legal expenses	627.60	
Audit	800.00	
Safe deposit box rent	77.00	
Moody's investors' service, one year	1,200.00	
Premium Treasurer's Fidelity Insurance bond	181.25	
Miscellaneous expenses	54.06	
	$109,181.04	
Bond premium amortized	528.28	
		109,709.32
Amount carried forward		$120,603.18

Amount brought forward		$120,603.18
Transfer of income applicable to the following funds for year 1932:		
Surgeon-in-Chief Fund	$ 1,678.67	
John P. Reynolds Scholarship Fund	125.00	
		1,803.67
		$ 118,799.51
Portland Street Power Plant deficit transferred to Portland Street Power Plant depreciation account		1,120.28
Net investment income available for Hospital operating expenses		$119,919.79
Net payments for Hospital operating expenses as shown by the Superintendent's statement appended	$223,881.78	
Loss in Superintendent's supplies	2,594.51	
		226,476.29
Deficit for year 1932 charged to General Fund		$106,556.50

Balance Sheet, December 31, 1932

ASSETS

Land and buildings occupied for Hospital including furniture and fixtures		$2,277,718.55
Mortgages		425,200.00
Land and buildings:		
166/210 Portland Street	$794,418.57	
38/54 Scollay Square	494,943.41	
108/114 Lincoln Street	153,368.45	
91/95 Portland Street	75,957.25	
148/150 Hanover Street	60,787.78	
1/7 Sudbury Street	60,151.83	
4/12 Cambridge Street	56,954.51	
Amount carried forward	$1,696,581.80	

Amount brought forward		$1,696,581.80
94/8 Arch Street and 13/17 Otis Street	166,211.42	
Land corner Albany and Dover Streets	106,485.73	
77 East Dedham Street	3,250.89	
35 Newcomb Street	3,454.08	
9 Andrews Street	1,894.15	
13 Andrews Street	1,890.60	
83 Village Street	4,783.94	
28 Genesee Street	8,099.00	
35 Wall Street	9,831.34	
83 Brighton Street	10,434.30	
33 Poplar Street	8,069.50	
20 Lowell Street City of Boston 1931 taxes	406.39	
		$2,021,393.14
Shares:		
180 shares Atchison, Topeka & St. Fe R. R. Co. common	$ 39,474.00	
1000 shares Boston & Maine R. R. Co. pfd A stamped	129,432.68	
500 shares Boston & Maine R. R. Co. pfd A unstamped	36,178.76	
620 shares Boston & Maine R. R. Co. prior pref. pfd	62,422.99	
100 shares Boston & Albany R. R. Co.	25,800.00	
524 shares Vermont & Massachusetts R. R. Co.	91,700.00	
450 shares Old Colony R. R. Co.	93,150.00	
183 shares Nashua & Acton & Boston R. R. Co.	183.00	
300 shares State Street Exchange	25,960.00	
600 shares Boston Real Estate Trust	69,937.25	
150 shares Hotel Trust (Touraine)	15,900.00	
150 shares South Terminal Trust	14,175.00	
Amount carried forward		$604,313.68

Amount brought forward		$604,313.68
1000 shares	Berkeley Hotel Trust	65,000.00
400 shares	Public Service Co. of N. J.	24,570.00
100 shares	Chicago, Milwaukee St. Paul & Pacific R. R. Co. pfd	15,162.70
600 shares	Pennsylvania R. R. Co.	40,773.88
1500 shares	New York, New Haven & Hartford R. R. Co. common	28,500.00
375 shares	New York, New Haven & Hartford R. R. Co. pfd	37,500.00
186 shares	Pennroad Corporation	2,883.00
30 shares	Albany Trust	2,265.00
18 shares	City Associates par value $500 per share	5,875.00
50 shares	Tremont Building Trust	3,240.00
		$ 830,083.26
Bonds:		
$ 50,000	Edison Electric Illuminating Co. 5% coupon notes due 1934	$ 49,810.00
50,000	Edison Electric Illuminating Co. 5% coupon notes due 1935	49,091.25
170,000	American Telephone & Telegraph Co. 5% bonds due 1965	168,187.50
25,000	Long Island R. R. Co. Gold Debenture 5% bonds due 1934	24,000.00
100,000	Chicago, Burlington & Quincy R. R. Co. Ill. Division 3½% bonds due 1949	89,077.50
Amount carried forward		$380,166.25

Amount brought forward		$380,166.25
20,000	Washington Water Power Co. 5% bonds due 1939	20,113.89
55,000	Interborough Rapid Transit Co. 5% bonds due 1966	53,500.00
50,000	Burlington Cedar Rapids & Northern R. R. Co. 5% bonds due 1934	50,516.75
25,000	New York Central & Hudson River R. R. Co. first mortgage 3½% bonds due 1997	21,875.00
50,000	Cleveland Lorain & Wheeling R. R. Co. 5% bonds due 1933	50,247.87
25,000	New York Central & Hudson River R. R. Co. Debt. 4% bonds due 1934	23,937.50
25,000	Northern Pacific Ry. Co. Prior Lien 4% bonds due 1997	24,781.25
50,000	Eastern Massachusetts Street Ry. Co. series A 4½% bonds due 1948	41,450.00
2,500	Eastern Massachusetts Street Ry. Co. series D 6% bonds due 1948	
5,000	Eastern Massachusetts Street Ry. Co. series B 5% bonds due 1948	2,585.00
25,000	Quincy Market Realty Co. 5% bonds due 1964	25,000.00
28,000	General Electric Company 3½% bonds due 1942	23,170.00
Amount carried forward		$717,343.51

Amount brought forward		$717,343.51
56,800	Pere Marquette Ry. Co. first mortgage 5% bonds due 1956 ...	49,420.00
3,000	Pennsylvania R. R. Co. 4% bonds due 1948	2,880.00
50,000	Atchison, Topeka & St. Fe R. R. Co. Trans-continental Short Line 4% bonds due 1958	47,500.00
20,000	Illinois Central R. R. Co. Ref'd mortgage 4% bonds due 1955	17,700.00
50,000	Western Electric Co. 5% bonds due 1944.....	48,297.50
25,000	Cedar Rapids Mfg. & Power Co. first mortgage Sinking Fund 5% bonds due 1953	24,250.00
15,000	Baltimore & Ohio R. R. Co. South Western Div. 5% bonds due 1950	14,887.50
2,400	Chicago, Milwaukee, St. Paul & Pacific R. R. Co. 5% bonds due 1975	2,400.00
50,000	City of Toronto, Canada General Consolidated Loan Debt. 5% bonds due 1941	99,125.00
20,000	City of Toronto, Canada General Consolidated Loan Debt. 5% bonds due 1943	
30,000	City of Toronto, Canada General Consolidated Loan Debt. 5% bonds due 1944	
Amount carried forward		$1,023,803.51

Amount brought forward		$1,023,803.51
50,000	Canadian Pacific Railways Equipt. Trust 5% bonds due 1944	49,625.00
25,000	Indianapolis Gas Co. first mortgage 5% bonds due 1952	25,113.77
25,000	Erie R. R. Co. refunding & imp. mortgage 5% bonds due 1975	23,875.00
50,000	Crucible Steel Co. of America 5% gold debt. bonds due 1940	49,750.00
5,000	Pennsylvania R. R. Co. gen'l mortgage 4¼% bonds series D due 1981	4,800.00
25,000	Pennsylvania Power & Light first mortgage 4½% bonds due 1981	24,062.50
20,000	Central of Georgia Ry. Co. Chattanooga Div. 4% bonds due 1951	17,500.00
25,000	Southern California Gas Co. first mortgage & refunding 4½% bonds due 1961	24,062.50
5,000	Atlantic Gulf & West Indies Steamship Co. Coll. Trust 5% bonds due 1959	3,500.00
10,000	Kentucky Traction & Terminal Co. first & ref'd S. F. 5% bonds due 1951	8,650.00
5,000	United Post Office Corporation first mortgage S. F. 5½% bonds due 1935	5,000.00
Amount carried forward		$1,259,742.28

Amount brought forward		$1,259,742.28	
5,000 Associated Gas & Electric Co. debt. 5% bonds due 1968		4,900.00	
5,000 New England Power Association debt. 5½% bonds due 1954		4,805.00	
5,000 Great Northern R. R. Co. general mortgage 7% gold bonds series A due 1936		3,625.00	
			1,273,072.28
Cash:			
Operating Expense Fund	$ 20,000.00		
Less overdraft in banks	7,020.99		
			12,979.01
Superintendent's inventories			39,188.38
Total Assets			$6,879,634.62

Balance Sheet, December 31, 1932

LIABILITIES AND FUNDS

Reserves:			
For Portland Street Power Plant depreciation	$ 4,861.02		
For depreciation of investment Real Estate	109,630.35		
		$ 114,491.37	
Unexpended Income:			
Surgeon-in-Chief Fund—Income	$ 4,096.75		
John P. Reynolds Scholarship Fund Income	201.85		
			4,298.60
Special Funds:			
Diabetic Research Fund	$ 90.03		
Amount carried forward	$ 90.03		

Amount brought forward ..... $	90.03	
Philip H. Gray Fund for the furtherance of Neuro-Surgery.....	13,515.54	
John P. Reynolds Memorial Fund	1,000.00	
Hemenway Squash Court	11,050.00	
Surgical Dressing Fund—donation from the New England Surgical Dressing Committee	10,000.00	
Surgeon-in-Chief Fund	33,573.44	
John P. Reynolds Scholarship Fund	2,500.00	
Radium Fund	3,000.00	
Alexander Cochran Free Bed Fund	10,000.00	
Theodore Lyman Free Bed Fund	1,000.00	
Aimee Lamb Free Bed Fund in memory of Mrs. Winthrop Sargent	5,000.00	
Walter Hunnewell Free Bed Fund	10,000.00	
Carrie M. Hall Fund.....	7,000.00	
Social Service Fund.....	.48	
Fund for Research in Renal and Vascular Diseases	3,068.74	
Social Service Special Gift Fund..	163.60	
Free Bed in memory of Henry Saltonstall Howe	5,000.00	
Francis Weld Peabody Loan Fund	1,458.29	
G. Gorham Peters Fund.....	2,500.00	
Christmas Fund	5.00	
United Boston Unemployment Relief Campaign	135.44	
		120,060.56
Peter Bent Brigham Hospital General Fund		6,640,784.09
Total Liabilities and Funds.		$6,879,634.62

EDMUND D. CODMAN,
Treasurer.

Report of the Superintendent

THE nineteenth annual report of the Superintendent is submitted herewith covering the year 1932.

The third year of the financial depression, beginning late in 1929, has been a serious one for voluntary charitable institutions throughout the country, a number having been obliged to close their doors for lack of financial support. Fortunately, the health of the people in general has been good. No serious, widely spread epidemic has taken place. A mild one, variously called "grippe" or "influenza" began in the western part of the country and worked easterly during the latter part of the year, and while it had not spent itself as this report closes, fortunately, comparatively few affected required hospitalization, and the mortality was low. Hospitals generally have had a low census throughout the country. In 1931, the average occupancy for the United States was 62%, with evidence of further falling off in 1932. Our average bed occupancy for 1931 was 80+% and for 1932 75.7%. Admissions to the private ward have dropped to a very low point.

There were admitted to the ward during the year 4,220 patients as compared with 4,056 in 1931. The average number of free patients was 37—% as compared with 29—% in 1931. The average stay of patients was 16+ days, as compared with 18— days last year. The per capita cost, based on the total expenditures in all departments of the hospital (except the amount paid graduate nurses employed at the expense of the patient for special duty) was $7.49+ as compared with $8.00+ in 1931. Deducting the cost of operating the private ward and the Out-Door Depart-

ment, the per capita cost was $6.25—; it was $6.63 last year. The daily per capita cost of provisions for all persons fed was $.36+ as compared with $.43 in 1931. In the Out-Door Department, 8,173 new patients were seen. In 1931, this figure was 7,595. The total number of visits in the Department was 78,786 as compared with 71,188 the previous year. The cost per visit was $.61—. It was $.72+ last year. Our ambulance mileage was 6,264 miles, an increase of 681 miles over last year.

An effort has been made to reduce expenses as much as possible without affecting the quality of the hospital work. In February, a reduction of salaries and wages was adopted, ranging from 5% for all receiving under $1,000. per annum, to 7½% for those receiving up to $1,500, and 10% for those receiving more than $1,500. An allowance for room and board was considered part of the salary for those who reside in the hospital. Beginning August 1, 1932, graduate nurses who return for temporary hospital work on special duty have co-operated in accepting $5 instead of $6 a day for their services. The hospital has reduced its charge to patients for special nurses' board from $1.50 per day to $1.00 per day.

Receipts from both endowments and patients have dropped sharply and the operating deficit for the year was $106,556.50. Steps have been taken for an emergency drive for funds for 1933 as it was evident that few of the voluntary charities could continue to give adequate relief unless new sources of income could be found.

Dr. Harvey Cushing, Surgeon-in-Chief since the opening of the hospital, retired September 1, having reached the age limit for active staff members. Acknowledged as he is, the leading authority in the neurosurgical field, his connection with the hospital has made

its name familiar in all parts of the medical world. We all regret the necessity of his severing his active connection with us and our good wishes go with him. He has been appointed Surgeon-in-Chief Emeritus. Dr. Elliott C. Cutler, a former member of our staff, and recently head of the surgical department of Western Reserve University Medical School and Lakeside Hospital, succeeds Dr. Cushing. We are glad to have Dr. Cutler again with us.

There have been no important changes in the personnel of the administrative staff during the year.

In the Dietary Department, the student dietitian course was increased from six to eight months to meet the standards laid down for the practical training of students by the American Dietetic Association. Twelve students completed the training as hospital dietitians during the year. The total special diet days were 13,980 as compared with 13,994 last year. The outstanding diets and numbers were: Diabetic, 3,623; High Caloric, 2,310; Obesity, 1,822; Standard Nephritic, 650; Low Protein, 722; Sippy, 1,270.

The patients' library circulated 6,593 books during the year, some in Yiddish, Italian, French, Greek, and Polish. The total number of books presented to the library was 393. Ten were purchased. Dr. E. C. Cutler gave 233 books; Mr. Charles P. Curtis, 10; Miss Eleanor Chase, 33; Dr. Richard Light, 20. Mr. L. H. H. Johnson and Neissner Brothers made generous contributions of magazines. One hundred and five foreign books were borrowed from the State House Library.

Dr. Richard Light, Assistant Resident Surgeon, very generously gave the hospital a fine stereopticon lantern and screen. Dr. Cushing presented 8 publications by himself to the Staff Library.

On July 8, at 9.30 in the evening, fire broke out in the laundry from spontaneous combustion, due to the overheating of clothes which had been dried in the tumbler drier. The loss was estimated at $500 and was covered by insurance.

An effort has been made to retain the standards of upkeep in the hospital, although no extensive improvements were made. A number of examining rooms were added in the Out-Door Department by the sub-division of larger rooms. This work was accomplished wholly by our own mechanical staff.

It is a pleasure to report the splendid spirit of all connected with the hospital.

Respectfully submitted,

JOSEPH B. HOWLAND,

Superintendent.

DECEMBER 31, 1932.

Table I

(This table is being omitted this year)

Table II

Comparative Tables of Statistics

Hospital Wards and Single Rooms

	1932	1931
Patients in hospital first of year:		
Medical	73	69
Surgical	90	120
Total	163	189
Patients admitted during the year:[1]		
Medical	1,996	1,899
Surgical	2,224	2,157
Total	4,220	4,056
Patients treated in hospital wards and private rooms during the year:		
Medical	2,069	1,968
Surgical	2,314	2,277
Total	4,383	4,245
Patients discharged during the year:		
Well	459	568
Improved	2,797	2,501
Unimproved	482	380
Untreated	233	337
Died	253	296
Total	4,224	4,082

[1] *The apparent discrepancy between these figures and those shown in the summaries of Surgical and Medical statistics on pages 86 and 98, respectively, are explained by the latter tables including transfers from Medical to Surgical and vice versa.*

	1932	1931
Patients in hospital end of year:		
Medical	75	73
Surgical	84	90
Total	159	163
Total patients days' treatment:		
Paying patients	$28,210	$34,293
Part-paying patients	14,893	16,388
Free patients	25,198	21,575
Total	$68,301	$72,256
Percentage:		
Paying patients	41+	47+
Part paying patients	22—	23—
Free patients	37—	29—
Total	100	100
Average patients per day:		
Paying patients	77—	94—
Part-paying patients	41—	45—
Free patients	69+	59+
Total	187+	198—
Medical	82—	79—
Surgical	105+	119+
Total	187+	198—
Average time per patient in hospital.	16+days	18—days
Daily average cost per patient	$7.49+	$8.00+
Daily cost per capita for provisions for all persons supported	.36+	.43+
Patients were admitted as follows:		
Paying regular rate	1,797	1,981
Paying less than regulate rate	868	858
Free	1,555	1,217
Total	4,220	4,056

Out-Door Department

	1932	1931
Number of new cases treated	8,173	7,595
Medical	3,549	3,205
Surgical	4,462	4,212
Urological	162	178
Number of visits	78,786	71,188
Medical	43,210	39,979
Surgical	30,408	27,085
Urological	5,168	4,124
Cost of maintenance of Out-Door Department	$47,962.10	$51,456.67
Daily average cost per patient	.61—	.72+

Ambulance

Ambulance calls during the year	497	493
Average calls per day	1+	1+
Mileage for patients	4,496	4,486
Other business	1,768	1,097
Total mileage	6,264	5,583

Table III

Year	Expenses	Receipts	Number of patients admitted to wards	Total days' treatment	Average stay in hospital	Average cost per day per house patient	Daily cost per capita for provisions per day	Out-Door Department: Cost of maintenance	New cases treated	Visits	Average cost per visit
1913	$190,510.41	$36,571.58	1,370	25,157	20—days	$7.02—	$0.53—				
1914	256,423.25	69,251.23	2,843	49,295	17+days	5.15+	.35—	$10,081.39	8,347	30,434	$0.33+
1915	269,913.46	88,651.55	3,417	60,242	18—days	4.48—	.33+	12,108.39	8,536	36,523	.33+
1916	308,413.81	116,519.00	3,712	65,291	18—days	4.72—	.35—	16,551.07	9,810	47,687	.35—
1917	324,777.80	138,512.48	3,674	65,129	18—days	4.93+	.40—	19,140.56	10,995	53,405	.36—
1918	321,547.28	154,026.47	4,025	66,669	17—days	4.81—	.44—	18,989.10	7,952	45,153	.43—
1919	377,253.15	193,741.63	4,282	65,546	15+days	5.76—	.51—	20,557.07	7,631	49,972	.41+
1920	453,853.94	262,413.29	4,316	69,541	16+days	6.53—	.59—	25,033.43	7,862	49,572	.50+
1921	483,921.52	301,918.05	4,315	68,556	16—days	7.06—	.47—	25,694.39	7,707	52,116	.49+
1922	492,676.00	325,667.28	4,685	70,695	15+days	6.97—	.45+	28,157.67	8,111	58,014	.49—
1923	540,524.41	367,369.45	4,775	74,854	16—days	*6.64—	.47—	29,510.51	8,801	57,967	.51—
1924	535,531.70	354,083.78	4,658	72,539	16—days	*6.83—	.46+	32,218.89	8,846	59,336	.54+
1925	557,252.24	365,749.62	4,422	72,411	16+days	*7.12—	.48+	33,753.42	7,081	60,291	.56+
1926	578,207.16	389,781.57	4,402	75,742	17+days	*6.97—	.48—	36,188.43	6,192	55,632	.65+
1927	620,177.85	412,568.64	4,607	78,645	17+days	*7.05+	.48+	35,696.05	7,699	60,671	.59—
1928	636,392.29	431,017.71	4,523	77,691	17+days	*7.25—	.48—	42,276.58	8,164	57,162	.74—
1929	663,064.84	456,916.54	4,472	78,743	18—days	*7.41—	.49—	48,802.11	7,849	75,593	.66+
1930	668,047.47	447,258.14	4,121	77,852	18—days	*7.68—	.49—	53,963.24	7,784	76,523	.71—
1931	668,839.02	418,586.38	4,056	72,256	18—days	*8.00+	.43+	51,456.67	7,595	71,188	.72+
1932	586,842.91	288,399.15	4,220	68,301	16+days	*7.49+	.36+	47,962.10	8,173	78,786	.61—

* 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931 and 1932 do not include the cost of special nurses.

Table IV
Expense and Revenue Statement

Administration Expenses

	1932		1931	
Salaries, officers and clerks	$34,524.87		$36,212.31	
Office expenses	.....		278.00	
Stationery, printing and postage	5,461.77		7,414.71	
Telephone and telegraph..	9,248.67		9,751.72	
Liability insurance	2,444.91		2,100.79	
Miscellaneous	617.17		800.22	
Total administration expenses		$ 52,297.39		$ 56,557.75

Professional Care of Patients

Salaries and Wages:				
Physicians and surgeons	$22,722.92		$24,931.05	
Sup't of nurses and assistants	8,919.00		10,397.62	
Nurses	25,725.36		26,615.73	
Special nurses	42,332.75		73,843.42	
Orderlies	8,471.45		9,637.60	
Druggists	6,659.95		7,091.83	
Ward employees.....	10,319.55		11,668.83	
Clerks	15,313.04		14,998.43	
Instrument repairs	795.30		858.00	
		$141,259.32		$180,042.51
Training School:				
Salaries	$ 4,316.92		$ 4,755.40	
Supplies	3,925.27		2,889.03	
		8,242.19		7,644.43
Medical and Surgical Supplies:				
Apparatus and instruments	$ 2,823.36		$ 3,513.68	
Medical and surgical supplies	26,330.88		34,262.87	
Alcohol, liquors and wines	1,614.43		1,307.36	
		30,768.67		39,083.91
Amounts carried forward		$180,270.18		$226,770.85

	1932		1931	
Amounts brought forward		$180,270.18		$226,770.85
Out-Door Department:				
Wages	$17,245.76		$18,361.12	
Supplies	16,198.89		15,822.46	
		33,444.65		34,183.58
X-ray Service and Photography:				
Salaries and wages	$22,306.19		$23,952.32	
Supplies	13,997.64		20,992.86	
		36,303.83		44,945.18
Library		800.00		800.00
Total professional care of patients' expenses		$250,818.66		$306,699.61

Department Expenses

Ambulance:				
Labor	$ 2,307.00		$ 3,088.00	
Supplies	1,127.23		956.50	
		$ 3,434.23		$ 4,044.50
Laboratories:				
Labor	$15,008.90		$15,988.39	
Supplies	5,841.53		6,521.40	
		20,850.43		22,509.79
Housekeeping:				
Labor	$33,470.44		$36,165.98	
Supplies	7,700.61		13,210.62	
		41,171.05		49,376.60
Kitchen:				
Labor	$14,836.81		$15,952.76	
Supplies	1,365.67		1,662.00	
		16,202.48		17,614.76
Laundry:				
Labor	$ 9,688.99		$10,887.22	
Supplies	1,838.34		1,375.95	
		11,527.33		12,263.17
Steward's Department:				
Labor	$ 4,307.15		$ 4,355.20	
Provisions:				
Bread	2,381.91		2,782.29	
Milk and cream	13,363.49		16,544.62	
Groceries	16,070.29		16,973.36	
Butter and eggs	7,946.96		10,798.24	
Fruit and vegetables	9,016.20		11,343.29	
Meat, poultry and fish	21,163.24		27,826.87	
		74,249.24		90,623.87
Total department expenses		$167,434.76		$196,432.69

General House and Property Expenses

	1932		1931	
Electric department	$ 4,061.56		$ 4,597.77	
Heat, light and power....	54,416.22		55,964.18	
Fuel	13.00		13.00	
Gas	3,032.24		3,064.92	
Ice	.....		23.45	
Insurance	*137.82*		2,993.05	
Water	4,508.92		4,199.22	
Maintenance real estate and buildings	11,274.21		14,162.18	
Maintenance machinery and tools	119.79		67.29	
Plumbing and steam fitting	6,301.55		7,616.83	
Miscellaneous	.....		.....	
Total general house and property expenses		$ 83,589.67		$ 92,701.89

Expenses from Special Funds

Permanent Charity Fund..	$ 2,025.00		$ 2,025.00	
Social Service Fund.....	5,135.88		6,696.65	
United Unemployment Fund	1,114.56		.....	
Social Service Special Gift Fund	2,227.39		1,228.56	
Christmas Fund	.....		44.17	
Diabetic Research Fund...	585.82		1,152.84	
Fiction Library Fund.....	2.29		22.71	
Gray Fund	19,648.91		3,978.26	
Reynolds Scholarship Fund	125.00		125.00	
Renal and Vascular Disease Fund	209.13		105.39	
Dr. Murphy's Fund.....	100.00		.....	
Total Expenses from Special Funds		$ 31,173.98		$ 15,378.58

Corporation Expenses

Salaries, officers and clerks	.....		.....	
Miscellaneous	$ 1,528.45		$ 1,068.50	
Total corporation expenses		$ 1,528.45		$ 1,068.50

SUMMARY

Expenses

	1932	1931
Total administration expenses	$ 52,297.39	$ 56,557.75
Total professional care of patients expenses	250,818.66	306,699.61
Total department expenses	167,434.76	196,432.69
Total general house and property expenses	83,589.67	92,701.89
Total hospital expenses	$554,140.48	$652,391.94
Corporation expenses	1,528.45	1,068.50
Capital expenditures	.....	.....
	$555,668.93	$653,460.44
Special Funds:		
Permanent Charity Fund	$ 2,025.00	$ 2,025.00
Social Service Fund	5,135.88	6,696.65
United Unemployment Fund	1,114.56	.....
Social Service Special Gift Fund	2,227.39	1,228.56
Christmas Fund	.....	44.17
Diabetic Research Fund	585.82	1,152.84
Fiction Library Fund	2.29	22.71
Gray Fund	19,648.91	3,978.26
Reynolds Scholarship Fund	125.00	125.00
Renal and Vascular Disease Fund	209.13	105.39
Dr. Murphy's Fund	100.00	.....
Grand total	$586,842.91	$668,839.02

Revenue

	1932		1931	
Administration receipts		$ 1,974.93		$ 1,543.88
Professional care of patients:				
Board of private room patients	$84,155.29		$112,330.73	
Board of ward pay patients	78,118.57		90,147.46	
Special nurses	51,661.61		86,458.11	
Our-Door Department	48,208.70		47,154.65	
Photography and X-ray	39,952.73		48,152.64	
Miscellaneous	25,685.59		30,682.31	
		327,782.49		414,925.90
Department Receipts:				
Ambulance		2,029.73		2,116.60
Total hospital receipts		$331,787.15		$418,586.38
Amounts carried forward		$331,787.15		$418,586.38

	1932		1931	
Amounts brought forward		$331,787.15		$418,586.38
Cash from Treasurer:				
Current expenses	$223,881.78		$234,874.06	
Reynolds Scholarship Fund	125.00		125.00	
Permanent Charity Fund	2,025.00		2,025.00	
Social Service Fund	5,135.88		6,696.65	
Diabetic Research Fund	585.82		1,152.84	
Gray Fund	19,648.91		3,978.26	
Fiction Library Fund	2.29		22.71	
Social Service Special Gift Fund	2,227.39		1,228.56	
Renal and Vascular Disease Fund	209.13		105.39	
Christmas Fund	.....		44.17	
United Unemployment Fund	1,114.56		.....	
Dr. Murphy's Fund	100.00		.....	
		255,055.76		250,252.64
Grand total		$586,842.91		$668,839.02

Statement of Stock on Hand

	1932	1931
Administration supplies	$ 4,201.47	$ 4,168.74
Professional care of patients' supplies	15,777.13	16,781.64
Department supplies	18,146.89	19,595.71
General house and property supplies	1,062.89	1,236.80
	$39,188.38	$41,782.89

Report of the Roentgenologist

THIRTY-SIX years may be a long time in the life of an individual but it is only a moment in the span of medicine which reckons a lifetime in centuries. This year is the thirty-sixth since Roentgen announced his discovery of the X-rays which have been such a boon to our profession. Our hospital is about to celebrate its twentieth birthday and yet when it was founded there was no provision made for a department of Roentgenology, although the X-rays had then been in use for sixteen years. At the last moment the omission was corrected by installing the adolescent branch in what was to have been an emergency ward, and there we have remained. Some of the present day conceptions of the X-rays are not unlike those of Roentgen's time, at least among the laity. In 1896 it is recorded in one of the London papers that a well known firm had for sale "X-ray Proof Underwear." And, lest we laugh at Londoners, it is recorded by Glasser, in his excellent monograph on Roentgen and the discovery of the X-rays that an assemblyman, Mr. Reed of Somerset County, New Jersey, introduced a bill in his state legislature February 19, 1896 making it a crime to install the X-rays in opera glasses for use at theatres! And those were the Gay Nineties! But if there is any complaint today it is that of over-confidence. Many patients and not a few doctors think that the X-ray is infallible, whereas it is but one method of physical diagnosis, dependent upon the correct interpretation of a shadowgraph. That is the viewpoint which is given to the students daily, the attempt being made first to observe correctly all of the facts upon a given film and then to deduce logically from those facts what pathological process is present causing the shadows.

Finally this must then be modified, if necessary, to suit the other facts given by history or physical examination, or the latter may indicate the selection between two or more conditions which could present a similar shadowgraph.

One of the most accurate tests or examinations made with the help of the X-ray is the gall bladder examination originated by Graham in 1925 and now used all over the world. We have followed carefully the results of this test during 1932 for this report and to compare our results with those obtained when the test was first used. In employing the test it may be remembered that it is a test of one of the physiological functions of the liver as well as the gall bladder, and it should, therefore, be more valuable than an examination of structure or abnormalities in structure. The radio-opaque dye (later to be seen in the gall bladder) is given either orally or intravenously, usually depending upon whether the patient is ambulant or in the hospital for diagnosis. We believe that the intravenous method is much more accurate, because a known amount of the opaque salt (tetraiodophenolphthalein) is delivered into a patient's blood stream, whereas in the oral method an unknown amount may be absorbed, as it may be retained in the stomach, be inactivated, be vomited, be lost by purgation, or otherwise hindered before it reaches the stage of absorption. For example in 30 patients who showed no gall bladder shadow by the oral method in 1932, nine subsequently showed a normal shadow by the intravenous method. Our practice, therefore has been to accept the results of the oral examinations showing definitely normal gall bladders or definitely abnormal ones with calculi, but in those oral ones where no gall bladder shadow is seen to check the result

by means of the intravenous method. There are many errors which might creep into such an analysis of results and the most obvious ones must be reviewed before presenting our figures. First we used only the cases which had been operated on at our hospital. This was necessary in order to study the degree and distribution of cholecystitis in relation to the density of the gall bladder shadow as seen on the X-rays. Furthermore, statistics on cases not operated on or autopsied would be of no value as to the reliability of the test. A gross error may then be incorporated at the outset, as only 36% of the cases reported "pathological gall bladder" during 1932 were operated on here, and those may have had clinical features substantiating the X-ray findings and indicating the need for operation which the other ones lacked. On the other hand a certain number of patients underwent gall bladder operations without cholecystograms, presumably patients with very definite clinical signs or symptoms pointing to the gall bladder as the seat of trouble. Our group, therefore, is a selected one probably lying between the very doubtful cases and the very definite ones.

Secondly it is difficult to decide when a given gall bladder is normal even when it is removed and studied histologically. Some authorities go so far as to say that no patient over 45 years of age has a normal gall bladder, as microscopical examination will reveal at least a few areas of round cell infiltration, with or without cholesterosis of varying degrees. Therefore, we established three grades of diseased gall bladders: A. Slight, and probably no more than normal for the given age, and no more in amount than would be compatible with normal function. B. Definite inflammation, abnormal in amount, but moderate in degree and still compatible with some function, and C. marked inflammatory

changes, of high degree and incompatible with normal function.

Thirdly we regret our inability to evaluate the patients' symptoms as recorded by so many different men, of various degrees of ability and with divergent interests and with diverse ideas as to what constituted a "typical gall bladder story." We attempted it but gave it up, as also we gave up the attempt to trace all of the patients to find what degree of relief of symptoms had been secured by cholecystectomy. That would be the ideal study—the end result—correlated with the clinical, roentgenological and pathological findings, but it must be postponed until we have more time and more help. Dr. J. W. Kane did the work on the cases studied from 1925 to 1931 inclusive, and Dr. J. H. Marks kept a record of the figures for 1932 for comparison. Dr. Haas made the review of the histological specimens, to be reported later, and my thanks are hereby expressed to all three men for their excellent cooperation.

The results can best be expressed by the following tables, with parallel columns for the two periods of study, all of them cases which have been operated upon or autopsied:

	1925-1931	1932
1. Total Reported Pathological	317	56
X-ray diagnosis correct in	307— 96%	55— 98%
2. "No Shadow"	156	14
X-ray diagnosis correct in	144— 92%	13— 90%
3. Cases with "Negative" Calculi	83	25
X-ray diagnosis correct in	81— 95%	25—100%
4. Cases with "Positive" Calculi	62	15
X-ray diagnosis correct in	62—100%	15—100%
5. Total Cases with Stones at Operation	281 (88%)	51 (90%)
Stones found by X-ray in	143— 50%	32— 74%

It is seen from the table above that our accuracy has risen above that of the previous years, not only in the total number of correct diagnoses as confirmed at operation, but particularly in the percentage of correct diagnoses of calculi, and in the percentage of calculi which we were able to show. Obviously the missing percentage of stones not shown was due to those cases with no gall bladder shadow and with "negative" or non-opaque stones in the non-functioning gall bladder.

These figures may be of some value, but to me the chief value lies in the analysis of our errors. The one mistake in diagnosis which was revealed in 1932 was in a patient who showed no gall bladder shadow and was therefore reported as a pathological gall bladder. Operation revealed a carcinoma of the stomach, unsuspected, with the gall bladder thin-walled but adherent to colon, liver and duodenum and all buried in a mass of carcinoma. The lack of function was not due to disease of the gall bladder and therefore it is listed as an error, although an obvious explanation was discovered. In the seven years before 1932 there were 32 errors in diagnosis revealed, probably best classified as follows:

Errors, 1925-1931 (inclusive)

Failure of Test		23
"Normal Shadow"; found diseased	10	
"No Shadow"; found normal	9	
"Normal Shadow"; found stones	4	
Poor Technique (gas or poor films)		5
Failure in Interpretation		4
"Normal Shadow"; stones overlooked	2	
"Negative Shadows"; not stones	2	
Total		32

Many of these mistakes were made at the beginning of the Graham era in gall bladder diagnosis, and are

not probable in these days with perfected technique and with experience in proportion. There are numerour minor details in technique as well as in interpretation which are important but this is not the place for them.

The third part of our study was the attempt to correlate if possible the density of the shadow and the amount of disease as revealed histologically. This may be summarized by saying that there was a rough but not absolute correspondence, as shown by the following table. There are always occasional exceptions which cannot be explained as yet, some gall bladders being extensively diseased and yet showing normal shadows by cholecystography and also some gall bladders which are normal in appearance at operation which give no shadow by the Graham test, but these are fewer than at first and, in the second instance, at least, may have been due to errors in technique.

			Cholecystitis		
	No.	Calculi	A (Slight)	B (Moderate)	C (Marked)
Shadow fairly dense.	6	6	5	1	0
Shadow faint.....	11	10	8	3	0
No shadow	22	20	2	8	11

It was of interest to us as confirming Graham's findings that the intensity of the disease corresponding to greatest loss of concentrating power seemed to be greatest in the wall of the gall bladder and not in the mucosa, the condition of the latter bearing no definite relation to the degree of shadow.

If there has been one outstanding feature or trend during the year it has been the wider use of the facilities of this department in teaching. This is a trend to be encouraged, as the X-rays lend themselves readily to

any form of clinic or demonstration, are a demonstrable and visible record of given states or conditions, and are almost universal in application, of equal value in Medicine and Surgery as well as in many of the specialties. At the present time the teaching is largely limited to the third and fourth years, in connection with case teaching on the wards and in special clinics and demonstrations. Being at present under the wing of the Department of Medicine, we have arranged a similar course in each of the three largest teaching hospitals so that each student in his medical trimester gets 10 to 12 hours of demonstrations in small groups covering most of the fundamentals of X-ray diagnosis. In the fourth year an all-day elective course of one month is offered and this has been increasingly popular until at present the applicants greatly exceed our quota of two men a month. In the second year preliminary lectures and group demonstrations are given in the effort to acquaint the men with the principles underlying the use of the X-rays in diagnosis, and in addition the department of Pathology uses a certain number of X-rays in association with demonstrations of gross pathology. No use is made of our facilities during the first year, where they could be of considerable help in the study of anatomy, as is done extensively in some other medical schools. On the whole the presence of students in the department is a beneficial one, as it is in any department of the hospital, even if it does require considerable time and energy to keep one jump ahead of the barrage of questions. The work in post-graduate teaching has declined considerably during the depression, due presumably to changed economic conditions. The weekly "X-ray Conferences" inaugurated by Dr. Christian before the advent of the present Roentgenologist continue during the school year and are in-

creasingly popular. They are probably one of the most valuable of teaching exercises, as there is ample time for discussion not only of the diagnostic problems but also those of therapy, and by careful selection of films a year's work covers the field quite thoroughly.

The amount of clinical work done during the year decreased 11% as compared with 1931, with a uniform drop in all parts of the work, but particularly in the amount done on patients referred from the Out-Door Department. Part of this was by executive order to cut down the expenses of the hospital. The one increase in work was in the number of X-ray treatments given which is probably due to the increasing number of cases given "fractional" doses on successive or alternate days. The income for the year dropped considerably, in keeping with the situation everywhere, but by various economies the expenses were cut proportionately so that at the end of the year there was a deficit of only $65.46.

The personnel of the department has undergone several changes. Dr. Hugh F. Hare finished his year as Assistant Resident and was succeeded by Dr. Joseph H. Marks who returned from a six months' leave of absence in November. The position of House Officer in Roentgenology was awarded to Dr. C. Carter Hamilton, a graduate of the University of Iowa Medical School. Miss Hewes resigned her position as secretary to enter private employ and her place has been filled by Miss Nelson, formerly on the Record Room staff. Mr. Gerard, technician, who has been with us for years, resigned to join the Harvard Athletic staff and his place has not been filled except in part, Miss Riley being transferred from part-time to full-time status. No material changes have been made in equipment or quarters, but the machines and instruments have been kept

up-to-date as far as was possible, and the work turned out from a technical standpoint has been of good and uniform quality.

In summary we may report a year full of interesting work, of successful economies without impairing the efficiency of the work, a year of changes and adaptations and another year of that unbroken harmony and cooperation which is so characteristic of our institution.

M. C. Sosman,
Roentgenologist.

December 31, 1932.

Tabulation of Data, Ten Consecutive Years

Year	Ward Cases	O. D. D. Cases	Private	All Others	Totals	X-ray Treatments	Films Taken	Dental Films	Alpine Lamp Treatments
1923	3,702	2,835	960	210	7,707	764	14,144	2,506	476
1924	3,869	3,283	1,031	200	8,383	916	15,408	3,530	1,097
1925	3,948	3,479	1,163	228	8,818	809	18,366	2,905	1,487
1926	4,299	3,420	1,269	214	9,202	618	21,575	2,928	765
1927	4,307	3,924	1,061	477	9,769	490	24,270	3,019	1,264
1928	4,846	4,307	1,112	607	10,872	1,162	26,172	2,941	1,719
1929	5,092	4,606	1,296	524	11,518	1,277	27,842	3,603	1,476
1930	4,945	4,602	1,252	496	11,295	1,302	26,523	4,490	1,411
1931	4,602	5,213	1,329	385	11,529	1,420	26,433	7,254	802
1932	4,202	4,630	1,126	354	10,312	1,539	22,782	6,597	665

Report of the School of Nursing

THE year ends with the following staff of graduate and student nurses:

Superintendent of Nurses and Principal School of Nursing	1
Assistant Superintendent of Nurses	1
Instructors	2
Supervisors	4
Night Supervisors	2
Graduate Head Nurses and Assistants in Departments	17
Graduate Floor Duty Nurses	6
Graduate Nurse Anesthetists	4
Masseuse	1
Student Nurses	118
	156

We continue to have twenty students from the Children's Hospital for six month services.

Fifty-seven students entered. Forty-three have been graduated, sixteen have withdrawn during the year.

Mary Gilmore, the Assistant Superintendent of Nurses, has been on leave of absence since September, for a year of work at Teachers College, Columbia University. Ruth Sleeper, Massachusetts General Hospital, 1922, and formerly an instructor in this School, is substituting during her absence.

The eighteenth annual graduation exercises were held November 18 in the Assembly Hall at Simmons College. Mr. Curtis, President of the Corporation, presided, announced the graduates and presented the medal and scholarship. The Dr. John P. Reynolds gold medal for general efficiency during the three-year course

was awarded to Ethel Irene Redman of Franklin, N. H., and the John P. Reynolds scholarship for highest rank at the end of the second year was awarded to Elsie Josephine Heath of Cedar Rapids, Iowa, with a grade of 94%.

The additional month of affiliation for experience in communicable diseases at the Children's Hospital started in 1931 has been dropped, as the department has not been open during portions of this year, and our students could not be received regularly. The affiliation at the Massachusetts Eye & Ear Infirmary has also been discontinued temporarily. It is hoped that it will be resumed at an early date.

The following approximate figures were announced at the graduation exercises concerning distribution of the five hundred and fifty-eight graduates at the end of the first twenty years:

Two hundred and twenty-eight, or about 40%, are married. Seven have died. Of the married group, twenty-two, so far as is known, are continuing professional work. Fifty, or nearly 9%, are at home, or occupation not known. Six are in foreign fields, four are anesthetists, seven are studying at Teachers College, Columbia University. Three are on faculties of colleges, two are office nurses, two have become nuns of different orders, each continuing nursing work. At least five have taken up other occupations, of whom one is in social service, one renting rooms, one managing an inn, one selling insurance, and one is said to be a professional golfer.

There are left the three great nursing groups. In the private duty group are about one-hundred, or over 17%. In the public health field are forty-seven, or over 8%. In the institution group, in which are included Superintendents of Hospitals, Principals of Schools of

Nursing, Assistants, Instructors, Supervisors, Head Nurses, operating room, X-ray and dispensary workers, and floor duty nurses, are found one hundred and fifteen, or over 20%. At least eight are Principals of Schools, and eight are teaching.

With the economic situation as it is, there are more applications for admission to the School than ever before. It seems to be, therefore, a proper time to raise entrance standards and to limit enrollment. This is in line with the movement throughout the country to reduce the numbers graduating on account of the serious over-supply of graduate nurses.

CARRIE M. HALL,
Principal.

DECEMBER 31, 1932.

Report of the Social Service Department

THE year 1932 has brought to the Social Service Department the same problems cited in the previous report as a result of continued unemployment, but the problems have become more numerous, more serious and more difficult to adjust. Many families that a year ago had one wage earner or more now have none and join for the first time the dependency group. Relatives who might have formerly given aid to the needy families are themselves unemployed, with the result that families of seven and eight are often being supported by $12 a week from the Department of Public Welfare or other agencies, as compared with the standard of $28 for a family of five members in former years. Frequently, there are cases where there is one wage earner in the family whose income is inadequate, but the fact that he is employed at all often precludes the possibility of aid from some outside agencies. Such instances present specific difficult problems of readjustment and assistance.

The staff of the Social Service Department the past year has been reduced by two members, whose services it was necessary to discontinue owing to present financial conditions. Fortunately, positions were found for them in other social agencies. Assistance has been given by various volunteers, some of whom have had previous training in social work.

While the work of the volunteers has been as efficient and co-operative as possible, the continuity of departmental routine has been frequently broken during the initial training period necessary to familiarize the new

workers with the clinical and administrative details. In several cases the volunteers have secured paid positions elsewhere after a few months' service in the Social Service Department, and their successors have had to be trained anew. This plan of substituting volunteers for paid, full-time workers on the staff has been less satisfactory from an efficiency viewpoint, but it has been a timely solution of the problem of a reduced staff during a period of necessary economy.

Mrs. Esther C. Rosenow, a graduate of the Simmons College School of Social Work has been the social worker in the Luetic Clinic since the latter part of the fall. Before doing social work Mrs. Rosenow taught English to Chinese high school students in North China and also to nurses at one of the hospitals in the Orient, for two years.

Social Service in the Luetic Clinic has consisted largely of interpretation to the patients of the need for regular treatment and helping patients to adjust socially and mentally to their condition.

For the coming year we hope to carry through a study of contacts to determine how many of these it has been possible to place under treatment when necessary. Such a survey might explain one of a social worker's regular functions and give insight into problems of the Luetic Clinic.

Luetic Clinic Statistics—1932

Patients brought forward from December 31, 1931		349
New Patients		122
Men—68	Women—54	
Reinstated		20
Total membership during 1932		491
Closed during year		176
Present membership, December 31, 1932		315
Total number of patients during 1932		491

Men—255	Women—236
73 single	49 single
176 married	163 married
5 widowed	11 widowed
1 divorced	13 divorced
214 white	205 white
38 colored	31 colored
3 yellow	

Discharged		176
Transferred to other hospitals; doctors	52	
Discontinued treatment	64	
Probably cured	3	
Died	6	
Seen in clinic but no definite diagnosis made	25	
Lapsed treatment (reported to Board of Health by name)	26	
Total number of letters sent		614
Special Wednesday Clinic letters	238	
Board of Health letters	110	
Special Blood Test letters	124	
Treatment Follow-up letters	142	
(Letters returned unclaimed—51)		
Total number of visits to clinic during year		7,537
Men—3,905	Women—3,632	

G. C. Statistics—1932

Patients brought forward from December 31, 1931		73
New patients		69
Men—47	Women—22	
Reinstated		8
Total membership during 1932		150
Closed during year		87
Present membership, December 31, 1932		63
Total number of patients during 1932		150

Men—131	Women—19
84 single	10 single
45 married	7 married
2 widowed	0 widowed
0 divorced	2 divorced
107 white	16 white
23 colored	3 colored
1 yellow	

Discharged		87
Transferred to other doctors; hospitals	13	
Discontinued treatment	38	
Probably cured	18	
Died	1	
Lapsed treatment (reported to Board of Health by name)	17	
Total number of letters sent		204
Special G. C. letters	153	
Board of Health letters	51	
(Letters returned unclaimed—25)		
Total number of visits to clinic during year		1,887
Men—1,808	Women—79	

The membership of the Cardiac Clinic has increased somewhat during the past year, the total membership

showing fifty-two more patients than in 1931. The total number of visits to the Clinic was also increased by thirty-six.

In the development of health and home betterment for the patients the co-operation of thirty-four social and health agencies was enlisted.

Through the joint efforts of the Boston School of Occupational Therapy and the Committee for the Home Care of Cardiac Children, we have been enabled to send two volunteer workers into the homes of our homebound cardiac boys and girls to teach them recreational activities within the capacity of their crippled hearts.

This venture is proving its worth in bringing new interests and pleasure to patients whose days were otherwise long and uneventful.

During the year the social worker in the Cardiac Clinic has participated with a group of cardiac social workers in a study of rheumatic heart disease for the Social Service Committee of the New England Heart Association.

STATISTICS OF CARDIAC CLINIC—1932

Cases brought forward from January 1, 1932	387
New cases referred	157
Reinstated	32
Total membership during year	576
*Closed during year	170
Present attendance January 1, 1933	406
Total number of visits to clinic	1,385
Average number at clinic	15
Largest number at any one time	34
Smallest number at any one time	4

** Thirty-four are reporting yearly at the clinic but are counted as closed cases to correspond with American Heart Association.*

Of the 157 new cases referred (age division being made at 16 years, inclusive) there were:

56 men, 56 women, 15 boys, 30 girls

Referred from Medical O. D. D.	112
" " House Medical	17
" " The Children's Hospital	17
" " L. M. D.	5
" " Other sources	6

Of the one hundred and seventy closed cases:

Ten died. Five were transferred to other hospitals. Twenty-eight were to be followed in the Medical O. D. D. Six were to be followed in another special clinic. Nine moved away leaving no address. Thirty-nine failed to respond to letters, postcards or calls. Two proved uncooperative. Twelve were discharged to L. M. D. Letters from eight patients were returned unclaimed. Thirteen were found to have no heart disease. Four moved too far away to attend clinic. Thirty-four are reporting at longer intervals than six months (six months to one year).

Of the present clinic of 406 members, there are:

111 men, 172 women, 48 boys, 75 girls.

As we have been asked to condense our report as much as possible this year, the work on the other services will be omitted. Volunteer service has been supplied to the Dental Clinic twice a week, Blood Clinic twice a week, Diabetic and Surgical Follow-Up Clinics. Convalescent care was arranged for one hundred and fifteen patients; forty-five were transferred to hospitals giving chronic care; forty were placed in sanatoria for tuberculosis; the Community Health Association was asked to call on one hundred and fourteen patients; twenty-five children were referred to children's agencies. The Red Cross Motor Service gave much valuable assistance in transporting patients unable to travel by street car.

Three thousand one hundred and eighty-nine dollars and eighty-five cents was raised for patients needing special nursing and outside hospital care, extra nourishment, apparatus, dentistry, glasses and transportation from the following sources:

Emergency Unemployment Relief Fund	$1,250.00
"Divers Good Causes," *Boston Transcript*	427.00
Weber Charities, Inc.	315.00
Benton Fund	264.00
Anonymous	378.15
Mary A. Crabtree Fund	75.00
Home for Aged Men, for outside beneficiaries, given through Miss Christine McLeod	99.45
Eckley Fund	45.00
Lend-A-Hand Society	89.95
Boston Provident Association	29.90
Mrs. Margaret Parkman	38.00
Mrs. Joseph Warren	20.00
King's Chapel Sunday School	10.00
American Invalid Aid Society	11.50
Miscellaneous	128.80

As in previous years we have given supervised field work to students from the Simmons College School of Social Work.

We take this opportunity to gratefully acknowledge the help and assistance given us by the Ladies Committee the past year.

The Hospital is greatly indebted to Miss Grace Cummings for her splendid volunteer service in occupational therapy for the ward patients. She has supplied occupational therapy to sixty-five or seventy patients during thirty-one weeks.

We also wish to express our appreciation for the financial aid which the Permanent Charity Fund, Inc., has given.

Staff of Workers

General Service
- Alice M. Cheney, R.N.

Cardiac Clinic
- Thekla Andren
- Katharine A. Homans (volunteer)
- Mrs. Anne F. Greenough (volunteer)

Surgical Service—Diabetic Clinic
- Olga Alexieff, A.B., B.S. (resigned March 1, 1932)
- Priscilla Gibbs, A.B. (began September 6, 1932)

Medical Service—Luetic Clinic
- Sally L. Briggs (resigned August 31, 1932)
- Mrs. Esther C. Rosenow, A.B., B.S. (began November 2, 1932)

Medical Service—Arthritic Clinic
- Margery L. Crothers
- Anna Revere (volunteer)
- Mrs. James Storrow, Jr. (volunteer)

Occupational Therapy

Grace Cummings (volunteer)
Anne Waybright (volunteer)

General Volunteer Service

Lillian Buller
Anne Dowling
Kathleen O'Toole
Mrs. Mary Gilmour
Bernice Tobias

Clerical Staff

Agnes Day Qualter
Addie M. Coolidge

Alice M. Cheney, R.N.,
Chief—Social Service Department.

December 31, 1932.

Report of the Pathologist

THE figures for the department are as follows:

Autopsies, medical service		81
Autopsies, done outside for medical service		4
Autopsies, surgical service		65
Autopsies, done outside for surgical service		2
Autopsies, neurological service		18
Autopsies, done outside for neurological service		9
Total number of autopsies recorded		179
General autopsies recorded	166	
Neurological autopsies	28	
	194	
Recorded autopsies	194	
Autopsies counted twice	15	
Actual total	179	
Reports on surgical specimens		1,285
Reports on neurological specimens		98
Reports on bacteriological specimens		1,202
Guinea pig inoculations for suspected tuberculosis		145
Total		2,730

There were 253 deaths in the hospital, of which 124 were medical, 108 were surgical, and 21 were neurological. Thirteen deaths, 1 medical and 12 surgicals, were investigated by the Medical Examiner.

The percentage of autopsies for the year after deducting the 13 cases taken over by the Medical Examiner proves to be 69%. The percentage of autopsies for the various services after making corrections for

autopsies twice entered is: Medical 65%; Surgical 60%; Neurological 86%.

The number and percentage of autopsies for all years are:

Year	Number	Per Cent
1932	179	69.0
1931	219	75.0
1930	192	64.4
1929	240	68.6
1928	219	59.6
1927	196	63.4
1926	179	62.0
1925	204	70.7
1924	177	70.0
1923	153	58.0
1922	174	68.0
1921	158	62.8
1920	155	58.2
1919	102	40.0
1918	145	40.0
1917	114	55.6
1916	113	49.5
1915	101	47.6
1913 and 1914	147	58.5

The number of surgical and bacteriological examinations made each year are:

Year	Number
1932	2,730
1931	2,615
1930	2,577
1929	2,649
1928	3,497
1927	2,821
1926	3,101
1925	2,613
1924	2,819
1923	2,708
1922	2,391

1921	1,984
1920	1,826
1919	1,628
1918	2,224
1917	1,248
1916	1,140
1915	1,030
1914	847

Changes in the staff in the last year were as follows:

Dr. George M. Hass succeeded Dr. Rudolph Osgood as Resident Pathologist, August 1, 1932.

Dr. Fred Ilfeld succeeded Dr. Mark D. Altschule as House Officer, July 1, 1932, for a period of six months and was succeded by Dr. Irving D. Thrasher in January 1, 1933, to serve for a period of one year.

Dr. Frank Horsfall succeeded Dr. John D. Houghton on July 1, 1932, to serve for a period of one year.

Dr. Horsfall is a graduate of McGill University Medical School. Dr. Thrasher is a graduate of John Hopkins Medical School. The other new members are graduates of the Harvard Medical School.

Publications printed since the last annual report are:

[Derick, C. L., Newton, F. C.] Schulz, R. Z., [Bowie, M. A.] and Porkorny, N. A. Spontaneous Hyperinsulinism. N. England J. Med., February, 1933, *208,* No. 6, 293-298.

[Farber, Sidney] and Wolbach, S. Burt. Intranuclear and Cytoplasmic Inclusions ("Protozoan-like Bodies") in the Salivary Glands and Other Organs of Infants. Am. J. of Path., March, 1932, *8,* No. 2.

Wolbach, S. Burt. What Can the Surgeon Expect in the Way of Guidance in the Treatment of Cancer from the Pathologist? N. England J. Med., June, 1932, *206,* No. 25, 1299-1302.

[Pinkerton, Henry] and Hass, G. M. Typhus Fever, IV. Further Observations on the Behavior of Rickettsia Prowazeki in Tissue Cultures. J. of Exp. Med., July, 1932, *56,* No. 1, 131-143.

—— Typhus Fever, V. The Effect of Temperature on the Multiplication of Rickettsia Prowazeki in Tissue Culture. J. of Exp. Med., July, 1932, *56*, No. 1, 145-150.

—— Spotted Fever, I. Intranuclear Rickettsiæ in Spotted Fever Studied in Tissue Culture. J. of Exp. Med., July, 1932, *56*, No. 1, 151-156.

[Coppoletta, Joseph] and Wolbach, S. Burt. Body Length and Organ Weights of Infants and Children. A Study of the Body Length and Normal Weights of the More Important Vital Organs of the Body Between Birth and Twelve Years of Age. Am. Jour. of Path., January, 1933, *9*, No. 1.

Wolbach, S. B. and Howe, P. R. Epithelial Repair in Recovery from Vitamin A Deficiency. An Experimental Study. J. of Exp. Med., March, 1933, *57*, No. 3, 511-526.

—— The Incisor Teeth of Albino Rats and Guinea Pigs in Vitamin Deficiency and Repair. Am. J. Path., May, 1933, *9*, p. 275.

S. B. Wolbach,
Pathologist.

December 31, 1932.

Report of the Surgeon-in-Chief

THE opportunity and duty to write a Brigham Hospital Annual Report has filled me with many misgivings. All of the graduates of this institution will realize the great sense of responsibility which must devolve upon the successors of either of the original chiefs of the professional services. Doubtless, also, all graduates, as well as the members of the staff and even the members of the Corporation, will have visualized with some alarm the advent of a new individual into the directing forces of the hospital. I can but hope that my long connection with the hospital, dating from its year of birth, though interrupted by periods of happy education elsewhere, will somewhat subdue the apprehensions of all these groups. Change must always occur and since it is a natural phenomenon it is perhaps peculiar that we should view it with anxiety. To be sure, it is not synonymous with progress and we are likely to approve people who change things but little. At the same time, the Brigham Hospital has never been a conservative institution. It has stood out for principles in education, of both students and staff, which at the time they were initiated were almost bombshells to other similar institutions. As a small example of this attitude was the utilization of clinical clerks in our most intimate professional life. I well recall that when I had left the Brigham and went to the Massachusetts General Hospital as resident surgeon in 1915, Dr. Washburn, the Superintendent, asked me what the advantages were of allowing clinical clerks to scrub up in the operating rooms, as if this were a tremendous innovation fraught with great danger. Students up to

that time, except for opportunities as "strikers," had been onlookers, not participating in the actual treatment of patients.

With this attempt to explain that any changes I may suggest will only be in line with the traditional background of our institution, I should like to explain my position as regards the future development of the surgical clinic by relating why I returned to Boston. I must presage my remarks regarding this by making it clear to all, in justice to many friends in Cleveland, that I was made delightfully happy in both my hospital and university connections at the Western Reserve University. I had the opportunity to watch the Lakeside Hospital grow into its new and beautiful home and to watch a group of interested and highly trained men take over a dominant rôle in the faculty there, backed by a most sympathetic president and board of trustees. I had acquired friendships and a clientele in a new community that left but little to be desired to make life complete from every point of view. In a final appraisal of what should be my decision, it appeared that the only way to decide this was to find out what I really wanted to do. It seemed to me that a man in an academic life in the field of surgery must either be interested (1) in technical surgery, (2) in his laboratory investigations, or (3) in the opportunity to educate others in his chosen field. I had long felt that the realm of technical surgery and pure operative surgery could not hold my interest unsupported by other and perhaps more urgent professional ambitions. When I turned to the question of productive investigative work, I was quite sure that though I might act as a stimulus to others, I myself should not expect to accomplish great advances in this field. It finally seemed to me that if I had attributes which might be useful

to other people, they would be those wrapped up in the organization of a surgical clinic and in the education of students, of undergraduate as well as graduate caliber, to the highest ideals of modern surgery. The reputation of Harvard University and of the Brigham Hospital were already such as to make it certain I might have more able candidates for a surgical clinic in this hospital than elsewhere. Largely on these grounds the choice was made. It is proper that I should make this statement now for in the years to come, when I shall perhaps urge changes in both the type and the scope of our work, it may be seen that they point toward the general problem of the building up of a great clinic in the field of general surgery. I have the ambition that the Brigham Hospital shall become a more general hospital in the sense that it will treat all forms of disease. This need not entail a great increase in size. It merely calls for somewhat wider diversification of material so that we can emphasize to students, both undergraduate and graduate, the value of a broad general training. The trustees need not view this with alarm, but should by now be ready to lend their shoulders, once the immediate financial dilemma has passed, to rounding out somewhat the scope of our professional activities.

I have already found out that I miss the opportunity which was present in the Cleveland organization for easy contacts with leaders in the specialties of both medicine and surgery. I have the deepest sense of obligation to my colleagues there for what I learned from them concerning diseases of the eye, the ear, nose and throat, the skin and other specialties and I think that my junior staff was by daily contacts with these specialists unconsciously educated to a degree which they would perhaps not recognize. I do not mean that we need great material changes, nor do I wish in a teaching institution

to see any emphasis placed on specialization, but I am anxious that any patient who comes to our doors can be admitted to our wards and there obtain the most modern and expert form of therapy.

The difficulties of taking over the surgical post in the Brigham Hospital from such a distinguished predecessor will be known to those who as young men have moved elsewhere into senior hospital or university positions. Such difficulties are increased perhaps by being a pupil of one's predecessor, or even, as may be said in my case, by returning home. One expects a good deal of new incumbents, and perhaps the better known the new incumbent, and therefore the less mythology about him, the greater his difficulties. At the same time, I can be thankful, as any returning pupil can, for the innumerable kind acts of former teachers and associates. It has indeed perhaps been harder for older members of the surgical staff than for me to have this happen and for the withholding of criticism, for the obvious desire of everybody to help out, I am inexpressibly grateful. This must extend to all branches of the Hospital. Dr. Howland and his administrative staff have from the very beginning made me feel at home and it seems to me they have gone out of their way to let this feeling sink in deeply. To return to Miss Hall and her school was always one of my ambitions and though Miss Hall and I have stood up for our presumed rights in front of each other for fifteen years, we still always come together in the end and, at least for my part, become more deeply appreciative of the other. To return with Dr. Christian still here, the man who was Dean of the School when I was a student and who has always been a warm friend to young men, has made many professional matters simple. His

wisdom and experience have been freely given and have kept me from many unnecessary errors.

Finally it is hard to write about my own colleagues, but the two Surgeons, Drs. Cheever and Homans, who helped bring me up, have made it as easy as it could be for me to accomplish already certain changes with which they may not even have been in entire sympathy. That is a good deal to say of anyone, for to have lived in an institution for twenty years and then to have to change even a few arrangements is not so easy as it may seem. Dr. Quinby, being in a more or less isolated position, has perhaps found it easier to fit into the new system. But that does not lessen my gratitude to him for his advice.

Organization. The organization of the surgical service has been but little changed. The fact that I am myself interested in general surgery makes the relation of the Surgeon-in-Chief and his associates a little more complicated than heretofore but we seem to have worked out a system mutually satisfactory. By alternating our responsibilities for rounds and the operating room the following day the Surgeon on duty and the Surgeon-in-Chief avoid conflict, see all the interesting cases, meet the students and staff frequently enough, and not too frequently, and lessen our daily load in a desirable fashion.

In considering any re-organization we have tried to consider our duties first to the patient, second to our house staff and graduate students, and third to our undergraduate students. The ideal care of the patient must come first both on the wards and in the operating room. This responsibility should be reflected throughout the entire organization. The sick patient in the operating room should have the best anesthetist and the

best scrub nurse, no matter whether the Surgeon-in-Chief or the Resident Surgeon is performing the procedure. This entails, as those of you who are acquainted with hospital services know, considerable flexibility, which we hope will be one of the underlying principles of our future set-up.

As regards the house staff itself, there has been little change. The Resident Surgeon is still in his highly responsible position. Perhaps because I am so recently graduated myself from such a position I have emphasized the importance of this post, but if I have emphasized the importance of our graduate teaching posts as a whole it is because I am interested in training young men. In the training of young men there comes a period when the assumption of great responsibilities becomes one of the most important elements in his continued growth. With such a thought in mind it is obvious that I should desire that the resident staff shall assume a considerable share of the actual work in the operating rooms. This is a Brigham tradition and my senior colleagues have shown the greatest thoughtfulness in furthering this idea and at the same time in protecting the unusually sick patient by assuming full responsibility in such cases.

We have somewhat modified the assistant resident positions, as I was extremely anxious that no Assistant Resident Surgeon should pass through the service without my having the privilege and responsibility of assisting in his education. Thus the new arrangement necessitated that the assistant residency in surgery be of sixteen months' duration. The first four months finds the new incumbent on the private wards and responsible for the accident ward and the unusual happenings in the O. D. D. The second period of four months finds the man attached to Dr. Quinby's service so that

all our graduates shall have some training in urological surgery. The third four months finds the Assistant Resident as my right-hand man, at which time he is responsible not only for the proper care of those patients in whom I am interested both on the public and private wards, but also for arranging clinics and teaching rounds. Finally in his last four months the Assistant Resident is second to the Resident Surgeon on the public ward service. This gives us the opportunity to train in a broad fashion all our Assistant Resident Surgeons. It also gives me the opportunity to study the men and help them wherever I can. And finally it allows us to have as an understudy to the Resident Surgeon a man who has already had a year's service in a senior capacity and who can without our being unduly worried take over the Resident's most responsible duties on those occasions when the Chief Resident must be without the walls of the institution.

Some changes have occurred in the interne service. We have deleted two of the positions which permitted a three months' service either in the laboratory or outside the hospital and have constricted the interne service to its original size. This change was initiated partly because I felt that the extra three months were not always wisely spent and partly because I felt that the shorter service of three months in each position such as "pup" or senior was not so beneficial for the internes as the longer service of four months. Time alone will tell whether our judgment in this matter is correct.

We now come to the various fellowships which form an integral part of our hospital and educational system. The Arthur Tracy Cabot Fellowship goes on as usual, and it is my hope that I shall be able to spend a fair amount of my time in directing work within the laboratory. As the new set-up of the Harvard Medical

School creates a separate unit in surgery for the Brigham Hospital, with a separate budget, the laboratory in the Medical School is now entirely a Brigham affair. It has indeed always been one because of the influence of my predecessor, but now the separation from the rest of the Surgical Department in the Medical School is complete. We are glad, however, to have workers from the other hospitals carry out investigations on the larger animals in our laboratory, a procedure which cannot be done in most hospital laboratories.

And lastly a new position is available for a graduate student on our staff. That is the Harvey Cushing Fellowship. Dr. Cushing collected from various sources funds which are set aside and known as the Surgeon-in-Chief Fund. The income from this is available for the Surgeon-in-Chief to spend as he thinks most wise. Dr. Cushing has never completely outlined exactly how he wishes this utilized and it will undoubtedly be spent differently by successive incumbents. I myself would like to create with it a Fellowship in Clinical Surgery and thus have available in the hospital a post similar perhaps to the laboratory post except that the man working in this Fellowship would confine himself to clinical problems. The Trustees, at my suggestion, have named this Fellowship the Harvey Cushing Fellowship.

Changes in Personnel.[1] *Senior Staff.* This paragraph is an innovation and perhaps will not be necessitated again for many years, but there have been some minor changes in the senior staff of which the graduates might like to receive notice. The two full Surgeons, Drs. David Cheever and John Homans, and the Urological Surgeon, Dr. W. C. Quinby, remain in their previous capacities. Dr. Francis C. Newton, as Senior As-

[1] *The changes reported here are subsequent to July 1, 1932, at which time Dr. Cushing closed the preceding Annual Report.*

sociate in Surgery, has been given a more extended service than heretofore, taking over the entire summer period. Dr. Moses S. Strock continues as Associate Dental Surgeon. Dr. Harlan F. Newton, who has for many years been in charge of the O. D. D. and therefore largely responsible for the third-year surgical teaching in the Brigham Hospital, remains in the same capacity and we have been able to divert further University funds toward his assistance.

In order to strengthen third-year teaching in the Brigham Hospital and to enlarge our activities in the O. D. D., which is our chief source for the supply of patients for the hospital, I brought with me from Cleveland and added to the staff Dr. William V. Cox as Junior Associate in Surgery, a title equal in rank with that held by Dr. Harlan Newton. Dr. Cox graduated from the Harvard Medical School in 1925 and was with me in Cleveland from that time until we returned to Boston. He passed successively through the posts of interne, Assistant Resident Surgeon, Crile Fellow in charge of our Laboratory of Surgical Research, Resident Surgeon, and finally Assistant Surgeon to the Lakeside Hospital. During a six months' period of this experience he returned to the Brigham Hospital as Assistant Resident under Dr. Quinby, so that both as a student and as a member of the house staff here he is experienced in the traditions of our institution.

Dr. Louise Eisenhardt has remained as Junior Associate in Surgery, and Dr. Donald H. MacDonald continues as Junior Associate in Oto-Laryngology in order that this specialty can be covered by a competent consultant. Dr. John C. Eckels, a former member of our house staff, on his return from a European experience was made Junior Associate in Urology, another attempt on my part to strengthen our O. D. D. both as regards

the care of the patients and as regards the teaching of our students in this important specialty.

Finally, I have to announce new posts of some senior importance, again having to do with a matter which I have already mentioned, the competent care of our patients by expert consultants. Dr. Frank R. Ober was made Consulting Orthopedic Surgeon in September of 1932, and Dr. Leroy M. S. Miner, Dean of the Harvard Dental School, was added to the staff as Consulting Dental Surgeon in December of 1932. In a further attempt to strengthen orthopedic teaching and so as to make it unnecessary for us to send some of our O. D. D. bone and joint cases to the Massachusetts General Hospital for therapy, Dr. William T. Green has been added as Junior Associate in Orthopedic Surgery as of April, 1933. The position filled by Dr. Green bespeaks, perhaps, my ideas as to a further direction in which the Hospital might be enlarged. We already run a splendid orthopedic clinic two mornings a week in our O. D. D., at which times the third-year students have experience in this important surgical specialty. This material has proven of great interest to us, and many cases which heretofore might have been sent to another institution for therapy have been admitted to the house and treated here, sometimes by the regular surgical staff and sometimes by our orthopedic consultants. This arrangement has been of considerable educational value to both the house staff and the students, as well as making the whole experience simpler and, I think, better for the patient.

Finally, I have to note the disappearance from the roster of this institution of a much beloved colleague, Dr. Gilbert Horrax. All graduates of the Hospital know this man, know that he has served the institution from its earliest days with unstinting devotion. His

abilities and his character have given him a particular niche in both our affection and our esteem. Because of the situation of neurological surgery in this city and the fact that there were already neurological surgeons in the Massachusetts General Hospital and the City Hospital, and because it did not seem wise to set apart here an absolutely separate neurosurgical service, he felt he should accept the senior post offered to him by Dr. Frank Lahey at his Clinic. He has, therefore, left us to become Neurological Surgeon to the Lahey Clinic and I know leaves with the every possible good wish of all who have ever served this institution. It was my hope that he might remain as Consulting Neurological Surgeon so that the family ties of so many years might remain unbroken, but his duties at the Lahey Clinic have demanded all his time and he has felt it unwise to accept even a consulting position here in the Brigham Hospital or to continue as a teacher in the Medical School. We deeply regret the loss of such a man from our midst, but decisions which often appear to others difficult of understanding may in the long run, as we certainly hope in this case, prove the wiser and better course. Certainly Dr. Horrax knows that he carries with him the good wishes of all those whose names have ever appeared in the register appended to these reports.

I have also to announce with regret the resignation of Dr. Hilbert F. Day, who has long served our O. D. D. and has assisted in the education of the third-year students in surgery. He has found that his activities elsewhere now demand so much of his time that it is impossible for him to fulfil duties imposed by an appointment on the O. D. D. and visiting staffs.

Resident Surgeon. When I took over the service here on September 1, 1932, Dr. Richard Meagher was still

Resident Surgeon. Correspondence with him previous to our arrival permits us to acknowledge here our gratitude to him for assisting in arranging the house staff and the turnover.

He was succeeded by Dr. Robert Zollinger. Dr. Zollinger had long been under my wing in Cleveland and I felt it essential to bring with me certain men educated to my peculiarities and to my ways of looking at the organization of a surgical staff and my ideas concerning our responsibilities toward both patients and students. Dr. Zollinger is no stranger to the Brigham Hospital. Following graduation from the Ohio State University Medical School in 1927, he came to me in Cleveland and worked in the Laboratory of Surgical Research of Lakeside Hospital for six months, and on January 1, 1928, began his interne service at the Peter Bent Brigham Hospital. He then returned to the Lakeside Hospital in Cleveland as Assistant Resident Surgeon for a year and a half, which was followed by a year as Crile Fellow in charge of the Laboratory of Surgical Research at the School of Medicine, Western Reserve University. Following this year in the Laboratory, he was again for a period Assistant Resident Surgeon and then Resident Surgeon at the Lakeside Hospital. Most of this time he held a teaching position in the School of Medicine, Western Reserve University, so that his experience covered practical surgery, laboratory investigation, and some educational training. His previous experience in the customs and traditions of the Brigham Hospital made the change in this most important position on the surgical service a simple one; and though his vigorous personality, when attached to similar characteristics of his own Chief, may have seemed to create a relatively abrupt shift, now that the period of transition has passed by the true value of his character

has already given him an enviable status. I am glad to be able to announce that he is willing to remain with us for at least another year and this, too, bespeaks a Brigham tradition which I hope will be followed. I do not believe in any set period for the term of service of the Resident Surgeon. I should like to keep a good man from two to three years if he felt there was still more to be learned in this capacity, and of course it immensely relieves me to have few changes in such an important position.

Assistant Resident Surgeons. At the time of my coming here, after discussions with Dr. Cushing, members of the senior staff and the then Resident Surgeon, Dr. Meagher, we kept on two men who had already been thoroughly trained at the Brigham Hospital, Dr. Kenneth W. Thompson and Dr. Richard U. Light. For the new post of Assistant Resident Surgeon, I brought with me Dr. Ernest F. Bright. He, too, had been with me for two years in Cleveland. He was educated at the Harvard Medical School, graduating in 1929. Following this, he was an interne in pathology at the Palmer Memorial Hospital in Boston, and then was interne at the Lakeside Hospital, Cleveland, Ohio. Following this experience, he was placed in charge of the Laboratory of Surgical Research as Crile Fellow at the School of Medicine, Western Reserve University. From this position he became Assistant Resident Surgeon at the Lakeside Hospital and then came here at the time of the turnover, September 1, 1932, to assume a similar post.

These three Assistant Resident Surgeons, Drs. Bright, Light and Thompson, with Dr. Thompson as the senior member of the group, were our first Assistant Residents. In November, 1932, Dr. S. R. Snodgrass took over the

next vacant post. He was educated at Indiana University, graduating from the Medical School in 1929. Following interneship at the Indianapolis City Hospital and an assistant residency in pathology at the Indiana University Hospital, he came to us at the Lakeside Hospital as interne in surgery in July, 1931. The next appointment to the Assistant Resident staff will occur in March, 1933, and to this post I am again importing a westerner, Dr. Charles D. Branch, educated at the University of Michigan, who served from July, 1931, as surgical interne in the Lakeside Hospital, Cleveland.

Such a roster bespeaks a very generous admixture from the west, but this is a great country and perhaps after all many of the good things said of the west are true and we shall benefit from the experience.

House Officers. The interne posts have continued much as before except that, as I have already mentioned, two internes have been dropped from the service; thus, instead of each pair having an extra three months to do with as they choose, thereby cutting down the active period of ward work in the various successive positions as laboratory man, junior, senior, etc., to three months, we now have paired internes coming on duty at four-month intervals who for sixteen months devote their time exclusively to clinical endeavor. My own experience in junior capacities is still so recent that what I learned I am anxious to pass on to those whom I am to have a hand in educating. I found out at least one matter of importance during my training period, and that was that an active clinical surgical position with its responsibilities for human life does not permit serious investigative work to be conducted at the same time. It is my idea that when a man is interne he should be ground on the wheel of routine clinical surgery and

should learn this job thoroughly. His time should be completely filled so that when a later day comes and he has surmounted this period of training, he may be able to sit back, reflect and possibly conduct investigative work for which such periods of quiet and reflection without the disturbing element of responsibility for sick people are so essential.

The first pair of house officers to graduate since the turnover were Dr. D. V. Troppoli, who has entered into the practice of surgery in Providence, Rhode Island, and Dr. Paul A. Younge, who is now Resident Surgeon at the Women's Free Hospital in Brookline, Massachusetts. These men left us in November, 1932, and not until February, 1933 did another pair graduate. These were Dr. J. J. DuMortier, who has returned to his alma mater, Yale, as Assistant Resident Surgeon under Dr. Harvey at the New Haven Hospital, and Dr. D. W. Gaiser, who has secured a post at the New Haven Hospital in pathology.

In January, 1933, the interne examinations were held, and in spite of the depression the usual number of excellent applicants appeared, from whom we selected six of the outstanding men to fill the vacancies, the first two to begin in July, 1933.

Fellows. Fellow in Urology. The matter of Dr. Quinby's full-time assistant must first be noted. I have already spoken of the new arrangement whereby each of the Assistant Resident Surgeons serve Dr. Quinby's service for a period of four months, but in addition to these changing assistants he has a senior fellow in urology, who is on duty a whole year with him, and to this post he had already appointed Dr. Lawrence L. Howard, who, although originally coming from St. Louis where he graduated from Washington University

in 1928 and where he served as interne in the Barnes Hospital from 1928 to 1929, came Dr. Quinby from the Cleveland Clinic in Cleveland, Ohio, where he did work in surgery from 1929 to 1932. This arrangement gives Dr. Quinby an assistant on the senior staff (Dr. John C. Eckels) as well as two highly trained assistants (the Fellow and an Assistant Resident Surgeon), and should greatly enlarge the urological activities of the hospital.

Arthur Tracy Cabot Fellow. From many candidates, and because of the warmth of recommendations and after a personal interview, Dr. Cornelius B. Wood, a graduate of the University of Michigan in 1930, after which he served as a Fellow in Pathology at the University of Michigan and as interne in the Presbyterian Hospital, Chicago, was chosen to fill this post. Because of my interest in the thorax, he has spent most of his time investigating problems dealing with the lungs and the major circulation.

At the same time that Dr. Wood is working on this problem, and because of an increase in the funds set aside in the Medical School for the Brigham Hospital surgical unit, I have been able to have a second *Research Fellow in Surgery.* Dr. Harold F. Robertson, a graduate of Toronto in 1929, who had a fellowship in pathology under Professor Klotz and then two house officerships, first in the Toronto General Hospital and later in the Hospital for Sick Children, Toronto, has held this position for the first time. The year before coming to our Laboratory he spent largely in the Surgical Research Laboratory of Professor D. P. D. Wilkie at Edinburgh, Scotland, working on problems relating to the heart, a matter which he has been able to continue here to our great satisfaction.

I take pleasure, also, in announcing this year the conferring of the *George Gorham Peters Traveling Fellowship* upon Dr. Louise Eisenhardt. She has acted as one of Dr. Cushing's mainstays over a period of many years and all those familiar with the neurosurgical group brought up in this institution realize the great importance of her contributions to this field and of her loyal assistance to Dr. Cushing's ever-changing pupils. At his request, I was most happy to ask that she be given the fellowship for this year, even if her active participation in the utilization of the fellowship might have to be deferred until work now in progress with Dr. Cushing could be completed.

Finally, there is the *Harvey Cushing Fellowship*. I have already mentioned that the fund which established this fellowship was collected and donated to the Brigham Trustees by my predecessor. At my request, those who are to hold the fellowship endowed by this fund in the future are to be named Harvey Cushing Fellows. Such action was taken by the Board of Trustees on February 23, 1933. Dr. K. W. Thompson, largely educated by Dr. Cushing, has been made the first recipient of this fellowship. This creates a much needed post in an educational institution of this type. The Assistant Resident Surgeons are so busy with routine technical matters and the personal responsibility for individual patients that protracted serious investigation is almost impossible. Such a footloose fellowship, however, the incumbent being a man trained both in the clinic and in the laboratory, provides an ideal way for us to solve the many problems that arise so often in a clinic and which, because there is no one free enough to think the matter over, so frequently go by unanswered and unstudied. Dr. Thompson, the first incumment of this post has found the time to carry out both

clinical and laboratory investigations, a matter which reflects best the interests of the donor of this fund.

The Laboratory of Surgical Research. In addition to the two active Fellows, Drs. C. B. Wood and H. F. Robertson, working in our Laboratory, other people have utilized the Laboratory to its fullest capacity. Two of the internes, Dr. Gaiser and Dr. DuMortier, have continued their studies of the effect upon gastric acidity of vagal resections. Dr. G. Kenneth Coonse of the Department of Orthopedic Surgery has been studying the effect of experimental conditions upon the intrapleural pressures, and Dr. Zollinger has also been busy with work in the field of pulmonary disease. Dr. E. B. Benedict of the Massachusetts General Hospital surgical unit has continued his studies with gastric resections and Dr. Thompson has continued some of his pituitary endocrinological experiments. Throughout the year Dr. Homans has been carrying on with Dr. Cecil Drinker of the School of Public Health most interesting experiments relating to the study of the lymph flow in the extremities with the hope that such a study may have bearings upon the peculiar types of "swollen legs" seen so often in surgical clinics.

Coincident with my appointment here, the Medical School was generous enough to set aside ten thousand dollars to renovate and re-equip the Surgical Laboratory so that it now is as well established a place for experimental endeavor as one could wish for. Through the courtesy of the Department of Medicine, who were willing to move elsewhere, all of the rooms on the top floor of Building C, where the Laboratory has long resided, are now a part of the Surgical Laboratory. This should afford to the Brigham surgical unit ideal conditions for investigative work. The amount of work in progress this year has fully met my ambitions for this.

Indeed, the Laboratory has been so crowded that another year the number of outside workers permitted to carry on investigations there must be cut down. Noteworthy investigations have been carried out in relation to the lungs and the general circulation, and in the field of gastric surgery a start has been made that will show its result in later publications.

Publications for 1932. The appended list includes only those publications of the surgical staff appearing subsequent to July 1, at which time Dr. Cushing closed his last report, except for the complete list of those few new members who have come with me.

The number and quality of the publications which have emanated from this institution in the last twenty years represent one of its valuable contributions to both the art and science of medicine. The productivity of this clinic is widely known and it is hoped that the quality of the work as published from time to time by the surgical staff will continue to be of similar value. One might note at this time that one of the characteristics that often sets apart a junior member of the staff from his colleagues in a striking fashion is his actual ability to finish and report a piece of work. Teachers who have this matter deeply at heart know how great is the ordeal for the young man to write his first, or even his first dozen, papers. He realizes the discriminating ability necessary for looking over and assembling the work, in becoming familiar with the literature, and finally in setting it down on paper. It is common to find eager young men who have good ideas, who are industrious, who will look things up in books, but it is the exceptional man who seems to have that last little push that allows him to get it down on a piece of paper in order and to get it into press. The medical journals

of this country are flooded, as we all know, with immature and sometimes apparently useless publications, and one is sometimes torn between one's desire to keep this down and to let a pupil have the great value to him personally of publishing something. On the whole, I am convinced, since people easily learn to distinguish good from bad publications and one need not waste much time in scanning literature to tell what is and is not worthwhile, that it is wise to encourage one's assistants to literary productivity. The characteristics of any given clinic are often portrayed by such output and the productivity must be, therefore, jealously controlled.

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Statistical. This part of the report is largely of value to those actually concerned with the professional care of our surgical patients. The various tabulations which will appear are of value to us in order that we may have standards against which to judge our tendencies. For example, it is advisable for us to know operative mortality percentages as well as the percentage of autopsies obtained. We also should know some rough figures at least concerning the progress of our O. D. D., whether visits are falling off and need to be bolstered up. We should certainly know the general distribution of the type of cases seen on the surgical service. All of these things are essential for the proper administration of the division of surgery and are of great value to us as a post-graduate school to which young surgeons may wish to come. Such studies are commonly made at other hospitals, and by comparing our figures with theirs we have a general impression of where we stand in relation to our ability to cover the major branches of surgery and to give satisfactory training to surgeons.

Table A presents the general Hospital statistics. Those who study this table will note certain general tendencies: (1) the general death rate remains a more or less fixed figure; (2) the number of diagnoses per patient is steadily mounting. This figure is not of great moment and really represents the individual characteristics of those who are responsible for diagnoses, in

Table A

Hospital Statistics—Department of Surgery
1913-1933

Year	Total Discharges	Deaths	General mortality %	Diagnoses	Excess % of Diagnoses	Patients operated upon	Case % operated upon	Operations recorded	Post-operative deaths	Case mortality %	Operative mortality %
1913	690	35	5.00	690	0	477	69.1	693	29	6.1	4.2
1914	1474	83	5.63	1474	0	992	67.3	1361	61	6.1	4.5
1915	1869	89	4.76	2366	26.5	1328	71.1	1526	72	5.4	4.7
1916	2014	93	4.61	2348	16.6	1422	70.6	1632	68	4.8	4.1
1917	2021	74	3.66	2533	25.3	1457	72.1	1639	54	3.7	3.2
1918	1856	71	3.82	2315	24.7	1304	70.2	1474	61	4.7	4.1
1919	2123	102	4.80	2659	25.2	1411	66.5	1563	79	5.6	5.1
1920	2090	91	4.35	2604	24.5	1399	66.9	1602	69	4.9	4.3
1921	2195	107	4.87	2640	20.2	1405	64.0	1591	86	6.1	5.3
1922	2274	110	4.83	2692	18.3	1517	66.7	1552	71	4.7	4.5
1923	2397	135	5.62	3084	28.7	1646	68.7	1713	81	4.9	4.7
1924	2508	144	5.74	3462	38.0	1783	71.1	1843	75	4.2	4.1
1925	2578	134	5.19	3629	40.7	1667	64.7	1762	72	4.3	4.1
1926	2415	143	5.92	3565	47.6	1663	68.9	1789	87	5.2	4.8
1927	2474	135	5.95	3715	50.4	1735	70.1	1858	79	4.5	4.3
1928	2577	135	5.24	3737	45.0	1750	67.9	1930	89	5.1	4.2
1929	2574	136	5.28	3822	48.5	1708	66.3	1874	80	4.7	4.3
1930	2388	109	4.14	3763	57.6	1714	71.8	1892	71	4.1	3.2
1931	2375	125	5.68	4007	68.7	1670	70.3	1849	68	4.1	3.7
1932	2407	129	5.36	4415	83.4	1723	71.5	2337	84	4.8	2.9

that some surgeons like to put down only the main condition which brought the patient to the hospital, whereas perhaps with an eye to future investigation of records others like to put down all the conditions which seem pathological in any given patient. The main changes in the tabulations for 1932 are seen under the number of operations recorded. These changes are largely due to the fact that this year the number of operations is actually taken from the operating room record whereas in preceding years it came from the Record Room and some patients who had more than a single procedure were recorded as having had only one operation. The

accuracy of this figure is of some moment to me since it is the total number of operations that has much to do with how many junior members of the staff can be properly kept busy during a given period of time, and thus a study of these figures may assist us in a better organization of the house staff. The postoperative case mortality and the operative mortality figures vary, of course, in proportion to how many procedures are done on any given patient.

The operative mortality in years previous to 1932 seems high for the same reason that the operations recorded, as stated above, seem low. I have included in operations, as will be visualized later in Table B, everything except dressings, cystoscopies, and intravenous pyelographies. It seemed wrong to me to include simple dressings since they presented no risk to the patient. Among the operations, the great number of cystoscopies would have so affected our figures, at least as regards mortality, that I felt it unwise to include them in this figure.

Table B shows graphically the general type of material being handled on the surgical wards and in the surgical operating room. I divided the material into several major anatomical classifications, with the desire to visualize the material available for giving a broad training to the young surgeon. Should the number of cases in any one of these major divisions drop to a low level, we should busy ourselves with finding out the reason for this and institute means of stimulating patients with such disorders to come to the Hospital. This table is to me of great importance, for if there is one thing which has been a serious drawback in the training of surgeons in modern times, it is the influence which specialization has produced in their training. In many hospitals after a young doctor has finished his interne-

Table B

Statistical Study of Variety of Clinical Material

Based on Operations Performed

		Jan. 1 to Sept. 1	Sept. 1 to Dec. 31	Total
Neurological:				
Central Nervous System	Major	252	70	322
	Minor	8	13	21
Peripheral Nervous System	Major	2	1	3
	Minor	3	2	5
Thyroid		29	14	43
Thorax	Major	49	32	81
	Minor	8	7	15
Circulatory System:				
Heart and Pericardium		2	1	3
Blood Vessels		18	19	37
Abdomen:				
Stomach		31	22	53
Gall-bladder		58	28	86
Appendix		103	59	162
Small Intestine		5	6	11
Large Intestine	Major	35	22	57
	Minor	38	20	58
Hernia		102	40	142
Bones and Joints:				
Fractures		16	9	25
Other Diseases	Major	15	14	29
	Minor	50	24	74
Gynecology	Major	126	72	198
	Minor	56	31	87
	Radium	5	13	18
Genito-urinary	Major	126	50	176
	Minor	15	6	21
	Cystoscopy	347	178	525*
	I. V. Pyelograms	10	12	22*
Other Major Operations		28	34	62
Minor Operations		110	54	164
Nose, Ear, Throat		74	30	104
Dental		81	57	138
Transfusions		52	18	70
Dressings		707	8	715*
Alcohol Injections		57	15	72
Total†		2,618	981	3,599

* *These figures not used in compiling total figure for operations listed in Table A.*
† *These figures do not include work done in O. D. D. (i.e., cystoscopies, operations, reduction of fractures, etc.).*

ship, there are open to him assistant residencies in many of the surgical specialties and now even in subdivisions of the field of general surgery, but unfortunately in most hospitals there is left for the young man on the general surgical service only a small fraction of surgery. Often there is a special service for bone and joint surgery if not indeed a special orthopedic service, or fractures may constitute a special service. Some hospitals have special services for thoracic surgery and another for neurological surgery, in addition to the older specialties of gynecology, genito-urinary surgery, and diseases of the eye, ear, nose and throat. Such a segregation of disorders into separate clinics and special services means either that the young surgeon on the general service is trained only in a fragment of abdominal surgery with some peripheral surgery thrown in or that, if he is to cover all surgery, he must take six or seven assistant residencies, each of them taking perhaps a year's time. In the latter instance he may find himself thirty-five before he has even had time to think of getting out and doing something for himself.

The organization of the surgical service has already been explained in this report and these figures have a great deal to do with the organization. Should certain figures decrease greatly, it is obvious that we should change the organization, for there is no point in having two men cover a group which one man could equally well cover; and *vice versa,* should a great number of cases fall into a single category, that particular branch should require more assistants.

For the purpose of studying just what had happened to the clinic since our taking it over from Dr. Cushing, Table B for this year is divided at September 1 and then totalled in the final column. The figures in the middle column represent four months and, therefore,

if multiplied by three would give an average of the flow of that type of material through the Hospital in any one year.

I have not listed in Table B surgical procedures done in the O. D. D., such as cystoscopies, operations, reductions of fractures, etc., though it should be borne in mind that there is a considerable amount of such work carried out there and that it represents one of our major places for surgical training. Moreover, the responsibility given to the senior interne in the O. D. D. emphasizes the value of even the minor procedures done there. Now that an Assistant Resident has been definitely assigned to assist in emergency work and with surgical undertakings in the O. D. D., traditions may be more accurately handed down as well as the patient perhaps better safeguarded.

Table C

Statistical Table with Number of Deaths and Percentage of Autopsies Obtained in the Department of Surgery

		Autopsies	
	Deaths	Number	Percentage
1923	120	63	52.5
1924	131	95	72.5
1925	113	77	68.1
1926	127	77	60.6
1927	119	78	65.5
1928	128	83	64.8
1929	129	90	69.7
1930	96	76	79.2
1931	109	90	82.6
1932	117	84	71.7
Totals	1,189	813	68.4
1932			
Jan. 1-Sept. 1	75	53	70.7
Sept. 1-Jan. 1	42	31	73.8

Table C represents the batting average for autopsies obtained on the surgical service. I am sorry to see that the 1932 percentage has dropped below the preceding two years, though it is higher than for the five years immediately preceding 1930. This, we know, is due to the fact that Dr. Cushing's neurological cases, which constituted a great part of the surgical service, had an extraordinarily high autopsy percentage. With the falling off in this type of work and the increase in the number of cases in the field of general surgery the total percentage has dropped considerably. The percentage for the last four months of 1932, however, was better than that in the first eight months, which should hearten us to try to do better in the future. It is common knowledge that most institutions accept the percentage of autopsies obtained as an indication of the scientific inclination and spirit in a clinic. The Brigham has long had an enviable record and we shall continue to do our best to see that this record is in no way jeopardized.

Table D

O. D. D. Statistics; Department of Surgery—1925-1932

	General Surgery			Genito-urinary		
	Total	Old	New	Total	Old	New
1925	24,913	21,279	3,634	5,158	4,893	265
1926	23,062	19,931	3,131	3,671	3,501	170
1927	24,025	20,151	3,874	4,334	4,119	215
1928	20,989	17,050	3,939	4,072	3,851	221
1929	27,140	22,957	4,183	4,338	4,110	228
1930	28,002	23,824	4,178	5,028	4,827	201
1931	27,085	22,873	4,212	4,124	3,946	178
1932	25,946	21,484	4,462	5,006	4,844	162
1932						
Jan. 1-Sept. 1	16,871	13,998	2,873	3,497	3,397	100
Sept. 1-Jan. 1	9,075	7,486	1,589	1,509	1,447	62
	25,946	21,484	4,462	5,006	4,844	162

Table D covers the statistics of the O. D. D. These figures perhaps represent more accurately than the house figures the attitude of the community towards the excellence of the professional care given in an institution. On the whole, there has been a pretty steady increase in new cases from the very beginning of the Hospital, but in view of the depression and the fact that doctors are holding all sorts of cases, even cases which formerly they would have sent to an institution, it is gratifying to see that the number of new cases in the surgical O. D. D. is still increasing. I am somewhat at a loss to explain the steady, though small, decrease in the number of new cases attending our genito-urinary O. D. D. during the past five years. It was because of the knowledge of this decline that an extra member of the permanent staff was assigned to Dr. Quinby's service and a study of the number of new cases since September seems to indicate a small rise in the number of cases during the last four months as evidence that time and service put into increasing the type and quality of work which is done in our O. D. D. may well improve their clientele.

In closing, I am taking the opportunity of incorporating in these reports a notice of the deep appreciation which all who have ever served this institution must have for my predecessor. It is impossible for me to write down my personal feelings toward Dr. Cushing. His pupils know of our relationship, of my deep devotion to his great abilities which he has so liberally given to his pupils in these twenty years. No one in this country has achieved a similar position unless it may be said that Dr. Halsted left his mantle for his pupil, Harvey Cushing. The characteristics of these two men were quite different, their abilities and ambitions ob-

viously widely separated, and yet they both proved themselves to be of the quality from which great teachers are made. That people who have held such high positions should be dissimilar leaves hope to others who have similar ambitions. Indeed it may be important that successive individuals have quite dissimilar characteristics in order to achieve success for their institution.

Dr. Cushing has left to this Hospital more than we can express in writing or attempt to visualize. The traditions which his example and teaching have inaugurated have been of incalculable benefit to the Peter Bent Brigham Hospital and it will be our duty and pleasure to see that these qualities are perpetuated and handed down to our successors. His meticulous devotion to everything that had to do with the care and comfort of patients, whatever their walk in life and regardless of the strain on his own life and time, is a great example of the best traditions of our profession. His personal interest in the young men who flocked to find the opportunity of studying with him won him the position of a great teacher. All who have served this Hospital since its beginning will join with me in this expression of our deep and abiding gratitude.

ELLIOTT C. CUTLER.

Summary of Statistics

JANUARY 1, 1932 TO JANUARY 1, 1933

Total number of surgical admissions in 1932	2,401	
Total number of cases remaining in wards, Jan. 1, 1932	90	
		2,491
Total number of surgical cases discharged or transferred	2,278	
Total number of deaths	129	
(Post-operative 84—Non-operative 45—total 129)		
	2,407	
Total number of cases remaining in wards, Jan. 1, 1933	84	
		2,491

Report of the Physician-in-Chief

"These hospitals be so well appointed and with all things necessary to health, so furnished and, moreover, so diligently attended through the continual presence of cunning physicians, that, though no man be sent thither against his will, yet, notwithstanding, there is no sick person in all the city that had not rather be there than at home in his own house."

WITH its somewhat quaint wording, the above certainly aptly states an ideal for any hospital of today. Such an hospital would be equipped with everything needed in the care of patients, apparatus, laboratories, operating rooms, nurses, etc., for all of these and more make up "all things necessary to health". It would have a staff highly trained, "cunning physicians", and some of these would be resident in the hospital, or else there would not be "the continual presence of cunning physicians". Obviously all classes would go to such an hospital for "there is no sick person in all the city that had not rather be there than at home in his own house". The pleasant relationships between patient and hospital, and the fact that patients would be courteously, carefully and effectively treated is evidenced very delightfully in the words, "though no man be sent thither against his will, yet, notwithstanding, there is no sick person in all the city that had not rather be there than at home in his own house". Though the words quoted at the beginning of this paragraph were written four hundred and sixteen years ago by Sir Thomas More, they well can be taken as an expression of an ideal for the Peter Bent Brigham Hospital of today and the far future.

A NEW SURGEON-IN-CHIEF. In the last annual report the completion of the service of the first Surgeon-in-Chief was chronicled and regretted. To welcome the

new Surgeon-in-Chief is a particular pleasure. Elliott C. Cutler, after a notable service in Cleveland as Chief Surgeon at the Lakeside Hospital and as professor of surgery at Western Reserve University returns to the institution in which he obtained his first training in surgery.

From 1913 to 1915 and again from 1919 to 1924 as Surgical House Officer, Resident Surgeon and Associate Surgeon he served the Peter Bent Brigham Hospital acceptably. In these years the Peter Bent Brigham Hospital learned to know him well and to appreciate his worth and so we wanted him back. No stranger to us, we are confident that in subsequent years he will write his own record by his accomplishments in his dynamic fashion that we will take pride in. The Medical Service welcomes him. To me personally there is particular satisfaction in having him for a colleague; there is none other that I could have welcomed so gladly.

Physicians-in-Chief, *pro tempore.* In 1932 no one filled these posts, since in 1931 one came in the spring and another in the autumn. However, it is appropriate here to chronicle the death during 1932 of two notable past Physicians-in-Chief, *pro tempore,* Dr. William Sydney Thayer, our first Physician-in-Chief, *pro tempore,* coming in 1913, and Dr. Frank Billings our fourth, coming in 1916. Dr. Thayer had been selected to inaugurate this plan because to me he seemed to represent an ideal in medicine for which young men wisely could strive and how well in subsequent years in all he did was this ideal maintained. Dr. Billings, big in heart and big in frame, wise in medicine as well as in civil relationships, was an inspiring leader to the medical men of the middle west who became a builder of important medical institutions in his own Chicago,

and in my opinion was the man who among a remarkable group of clinicians of his own generation, Fitz and Shattuck in Boston, the elder Janeway and Jacobi in New York, Pepper and Weir Mitchell in Philadelphia, Osler in Baltimore, Forcheimer in Cincinnati, to mention but a few, accomplished most in his time for the advance of Medicine in the United States. As wise elder statesmen in medicine these two occupied an important place in my own medical life; sad it is to be able no longer to turn to them for their counsel and friendship.

Changes in Personnel. At the end of 1932 Dr. Channing Frothingham, Physician since the opening of the hospital, resigned to become the Chief Physician at the Faulkner Hospital. Twenty years of effective service he gave to the Peter Bent Brigham Hospital. Always buoyant, always ready in word or deed, he combined in the care of our patients worldly wisdom with medical experience accumulated in both an active private practice and in hospital work. No task set him ever was shirked. Greatly will he be missed at the Peter Bent Brigham Hospital, by none more than by myself to whom for twenty years he has been both first assistant and respected colleague. Into his new work he takes our good wishes for the great success which he richly deserves.

Dr. William C. Egloff resigned from the position of Junior Associate in Medicine to enter practice in Mason City, Iowa. Dr. Egloff served us well for a period of four years. Dr. Robert T. Monroe after six years as Junior Associate in Medicine was made Associate in Medicine. Dr. Marshall N. Fulton, after a year in practice in Providence, has returned to Boston as Junior Associate in Medicine at the Peter Bent Brigham Hospital

and Assistant in Medicine in charge of the laboratory of the Department of Medicine in the Harvard Medical School.

Of the Assistant Resident Physicians, three resigned during the year, Dr. Alex R. Freeman to become Assistant Plantation Physician of the Central Aguirre Sugar Company in Porto Rico, Dr. Gordon Myers to begin practice in Detroit and Dr. Leyland J. Adams to begin practice in Montreal. To fill these vacancies there were appointed as Assistant Resident Physicians Dr. Edward Alexander Bartram, who last year had conducted in the Laboratory of the Department of Medicine at the Harvard Medical School experiments on the action of diuretics following a service at the Montreal General Hospital; Dr. Eugene Charles Eppinger, who had been medical house officer at the Peter Bent Brigham Hospital, and Dr. Richard D. Friedlander who comes to us from the University of California Hospital in San Francisco.

As medical house officers the following men completed their service and began on other work as follows: Dr. Robert Fleming to take a service at the Boston Psychopathic Hospital; Dr. Philip Shambaugh to become Surgical House Officer at the Peter Bent Brigham Hospital; Dr. Eugene C. Eppinger to become Assistant Resident Physician at the Peter Bent Brigham Hospital; Dr. James B. McLester to become Assistant Resident Physician at the New York Hospital; Dr. Selwyn Steel to become District Physician at the Boston Dispensary; Dr. Peter A. H. Midelfart to become Surgical House Officer at the Peter Bent Brigham Hospital; Dr. William Evans to spend a year working in the clinic of Professor Grafe at Wurtzburg, and Drs. Lowrey F. Davenport, Robert J. Parsons and Howard A. Van Auken to become Research Fellows in Medicine at the

Harvard Medical School investigating the action of diuretics.

REPORT OF DR. FITZ ON THE OUT-DOOR DEPARTMENT. During the past year, the work of the Out-Door Department has continued as usual. The appointment system is remarkably effectual. Patients no longer wait unattended for great lengths of time, and one never sees, as under the old system, crowds of dissatisfied people wondering how soon their time for examination may come. The experiment of having third as well as fourth-year students at work each day in the general medical clinic has also proved a success. There are sufficient examining rooms so that ten or a dozen examiners can be accommodated and enough time so that each man assigned here can go over carefully two or even three cases a day. This means, therefore, that the so-called "Teaching Clinic" is a distinct adjunct to the Hospital, making possible an increased volume of out-patient work carefully done and well supervised; certainly it affords an admirable experience to students.

One of the interesting features of our Out-Door Department is the manner in which special classes for certain groups of patients has been encouraged to thrive. As out-croppings of the general Medical Clinic there are now in existence nearly a dozen special clinics which are functioning actively. How far it is wise to encourage so much specialism in the field of medicine is to my mind somewhat uncertain.

From the point of view of out-patient organization, however, the plan is a logical development as it is nearly as easy for a doctor to prescribe judiciously for a group of patients with the same disease as it is for him to advise a single one, and not nearly so time consuming. Thus the system flourishes, the general Medical Clinic

becoming more and more the diagnostic clearing-house from which are routed the cases likely to be benefited by therapy applied in one of the special classes. All patients pass through the general clinic from which they may be assigned to a special class; no patient is sent directly to a special class, thus maintaining the variety of patients and the interest of the work in the general clinic.

Of the work of these classes there is little to say beyond what has been said in previous reports. The asthma class under Dr. Walker continues to be most successful. Seven hundred and twenty-eight patients were examined during the year, and these included one hundred and eighty-two new patients with asthma and one hundred and twenty-one new patients with hay fever. Dr. Emery reports that the class for gastro-intestinal cases continues to be made up chiefly of patients with peptic ulcer, and there now are a great number under supervision. Dr. Levine's heart class is busier than ever. Dr. Monroe's class for patients with arthritis has accepted sixty-five new cases during the year and is now keeping track of one hundred and seventy-eight patients with this affliction, making a determined effort to limit the number enrolled in order to obtain the best possible results. Dr. Burnett's health class for patients with arthritis has admitted one hundred and sixteen new patients during the year, also keeping small by choice in order to function to best advantage. Dr. Murphy's class for patients with anemia has become so popular that it must now meet twice a week; a large number of patients with anemias of various types are being treated skillfully in it and receiving the benefit of most recent advances in our knowledge. Dr. O'Hare's renal class, Dr. Wood's tuberculosis class, Dr.

Flynn's diabetic class and Miss McDonald's nutrition class all prosper.

Two classes, the one for patients with diseases of the thyroid gland and the one for patients with syphilis, are being conducted by members of the resident staff. I believe that so important a class as the latter should be placed in charge of an older and more permanent member of the staff. There is a wealth of clinical material available for this class, and the disease is so important to the community as a whole that I should like to see the Peter Bent Brigham Hospital assume a position of greater leadership in its prevention and treatment.

The efficiency with which the Out-Door Department functions patiently, in cramped quarters, and for long hours each day, is due in large part to what Dr. Cushing has so aptly termed the Hospital's personality. Much gratitude is due to those devoted people who maintain the standards of work in the Out-Door Department; to Miss Rachel Adams who as supervisor keeps track of everything and makes things always run smoothly for the large number of people who are in the department; to Miss Cheney and her Social Service workers who are perpetually helpful; to the Clerical Staff who keep track of appointments and records; to Miss Frances McGuire who does a prodigious quantity of accurate laboratory work in the course of a year; to the pupil nurses who do all manner of odd jobs which help to make our work more expeditious; and to the members of the house-keeping staff who redd our quarters, keeping them tidy and of respectable appearance even at most hectic times.

Publications for 1932. During 1932 certain lines of investigation have been pursued by the members of the Staff, as shown by the following list of publications.

Some of these represent work actually done in the preceding year, but, according to our custom, are noted in the Annual Report only after their completion and publication, thereby avoiding duplication in being noted once when the work is under way and the second time when completed and published.

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—— Aortic Lesions in Relation to Cardiac Function and Physical Signs. Proc. Internat. Assemb. Inter-State Post-Grad. M.A., North America (1931), *7*, 94, 1932.

—— The Nephrosis Syndrome Associated with Idiopathic Amyloidosis. Med. Clin. N. Am., *15*, 805, 1932.

CHRISTIAN, H. A. and BARTRAM, E. A. Experimental Observations on the Action of Diuretics. Trans. Assoc. Am. Physicians, *48*, 292, 1932.

FROTHINGHAM, CHANNING. Diuresis. The Cyclopedia of Medicine, 1932.

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—— The Treatment of Acute Coronary Thrombosis. J. A. M. A., *40*, 1737, 1932.

ASHER, A. GRAHAM. Graphic Registration of Heart Sounds by the Argon Glow Tube. Arch. Int. Med., *50*, 913, 1932.

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Aub, J. C., Tibbetts, Dorothy M. and McLean, Regina. Studies of Calcium and Phosphorus Metabolism. XX. The High Calcium Excretion in Exophthalmic Goiter is not Due to Vitamine D Deficiency. J. Clin. Invest., *11*, 1273, 1932.

Aub, J. C. and Farquharson, R. F. Studies of Calcium and Phosphorus Metabolism. XV. In Various Metabolic and Bone Diseases. J. Clin. Invest., *11*, 235, 1932.

Bartram, Edward A. Experimental Observations on the Effect of Various Diuretics When Injected Directly into One Renal Artery of the Dog. J. Clin. Invest., *11*, 1197, 1932.

Blotner, Harry. The Use of Insulin in Malnutrition. Med. Clin. N. Am., *15*, 991, 1932.

Emery, Edward S., Jr. Peptic Ulcer: Its Treatment by the Roentgen Ray. N. Eng. J. Med., *206*, 717, 1932.

Emery, Edward S., Jr. and Gaetan, Libertad, R. Carcinoma of the Esophagus: An Analysis of 61 Cases. N. Eng. J. Med., *207*, 1013, 1932.

Evans, William. A Case of Myxedema with Ascitess and Atony of the Urinary Bladder. Endrocrinology, *16*, 409, 1932.

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Fulton, Marshall N. The Late Manifestations of Syphilis in the Aorta. Rhode Island Med. J., *15*, 23, 1932.

Fulton, Marshall N. and Levine, Samuel A. Subacute Bacterial Endocarditis with Special Reference to the Val-

vular Lesions and Previous History. Am. J. Med. Sci., *183*, 60, 1932.

FULTON, MARSHALL N. and CUSHING, HARVEY. The Specific Dynamic Action of Protein in Patients with Pituitary Disease. Arch. Int. Med., *50*, 649, 1932.

HAHN, RICHARD G. and ROSENBLUM, HAROLD. Minimal Toxic and Lethal Dosage of Digitalis in Experimental Hyper- and Hypothyroidism. Am. Heart J., *8*, 235, 1932.

HOLLAND, CLYDE W. and LEVINE, SAMUEL A. Limitations of the Electrocardiogram as an Aid in the Diagnosis of Coronary Occlusion. N. Eng. J. Med., *206*, 545, 1932.

KLUMPP, T. G. and HERTIG, A. T. Erythremia and Myelogenous Leukemia. Report of Cases Presenting Aspects of Both Diseases. Am. J. Med. Sci., *183*, 201, 1932.

MURPHY, WILLIAM P. The Parenteral Use of Liver Extract in the Treatment of Pernicious Anemia. J. A. M. A., *98*, 1051, 1932.

—— Three Cases of Anemia. Med. Clin. N. Am., *15*, 919, 1932.

SALLEY, S. M. An Unusual Atropin Effect on Ventricular Tachycardia. Am. J. Med. Sci., *183*, 456, 1932.

SHAMBAUGH, PHILIP. Azotemia Due to Low Blood Pressure; Its Occurence in an Unusual Case of Acute Rheumatic Fever. Arch. Int. Med., *50*, 921, 1932.

SHELBURNE, S. A., BLAIN, DANIEL and O'HARE, J. P. The Spinal Fluid in Hypertension. J. Clin. Invest., *11*, 489, 1932.

YOUNG, RICHARD H. Neurologic Features of Pernicious Anemia. J. A. M. A., *99*, 612, 1932.

As an economy, for the present the purchase and mailing of reprints by the Hospital has been suspended. This explains why past members of the staff have received no reprints of late.

The year just completed has been one of depression. The Hospital has felt the effects of financial stringency in many ways. All too often have our plans for the convalescence or recovery of our patients been thwarted

by their inability to provide needed things. Worry over loss of job and necessity of cutting expenditure to the bone have increased notably the effects of organic disease in patients. Hospital income has been greatly reduced and hospital activities had to be curtailed. At a time when buildings needed remodeling or replacement, laboratories had become inadequate and several expansions and advances seemed imperative, a planned campaign for large additional funds had to be given up. For the present we must carry on as best we can on reduced budget, giving the best service to our patients that we can under these conditions, making economies where they are possible. This shortened report is one of these.

All in the Hospital have accepted reduced salaries and wages. This seems to have been done cheerfully with a fine spirit of cooperation. Such a spirit eases the task of the work and increases our appreciation of the fine spirit that imbues all workers within the Hospital. More than ever do I appreciate the willing cooperation of the many needed to enable the medical staff to continue to do its splendid work.

HENRY A. CHRISTIAN,
Physician-in-Chief.

DECEMBER 31, 1932.

Summary of Medical Statistics

JANUARY 1, 1932 TO JANUARY 1, 1933

Total number of admissions in 1932		2,056	
Total number of medical cases remaining in the wards, January 1, 1932		73	
			2,129
Total number medical readmissions discharged in 1932	285		
Total number of medical new cases discharged in 1932	1,769		
		2,054	
Total number of medical cases remaining in the wards, January 1, 1933		75	
			2,129
Results on medical cases discharged in 1932 were as follows:			
Total number discharged well	72		
Total number discharged improved	1,118		
Total number discharged unimproved	258		
Total number discharged untreated	306		
Total number transferred to Surgical Service	176		
Total number dead	124		
		2,054	
Total number of medical cases remaining in the wards, January 1, 1933		75	
			2,129

Visiting Physicians and Surgeons
Pro Tempore

Sir Charles Ballance
K.C.M.G., C.B.; Consulting Surgeon to British Army, 1914-19; Col., R.A.M.C.; Consulting Surgeon to St. Thomas Hospital and to the National Hospital for Paralysis and Epilepsy; *Surgeon-in-chief pro tem., P. B. B. H., October 15 to October 25, 1928.*

Dr. Lewellys F. Barker
M.B., Univ. of Toronto, 1890; M.D. (Hon.) Univ. of Toronto, 1905; Queen's, 1908; LL.D., McGill, 1911; Emeritus Professor of Medicine, Johns Hopkins University and Visiting Physician, Johns Hopkins Hospital; *Physician-in-chief pro tem., P. B. B. H., April 21 to April 27, 1931.*

Dr. Frank Billings
M.D., Northwestern Univ., 1881; M.S., *ibid.,* 1890; Sc.D., Harvard, 1915; Professor of Medicine, Northwestern Univ., 1891-98; Professor of Medicine, Rush Medical College, 1898-1905; Professor of Medicine, Univ. of Chicago, 1905-24; *Physician-in-chief pro tem., P. B. B. H., May 15 to May 20, 1916. Died September 20, 1932.*

Dr. Lewis A. Conner
Ph.B., Yale Univ., 1887; M.D., Columbia Univ., 1890; Physician, New York Hospital, 1905; Professor Clinical Medicine, Cornell Univ. Med. School, 1905-16; Professor of Medicine, *ibid.,* 1916; *Physician-in-chief pro tem., P. B. B. H., April 8 to April 15, 1923.*

Dr. Charles A. Elliott
B.S., Univ. of Nebraska, 1895; M.D., Northwestern, 1898; Professor of Medicine, *ibid.;* Attending Physician, Passavant Memorial Hospital, Chicago; *Physician-in-chief pro tem., P. B. B. H., April 16 to April 22, 1933.*

Prof. Otfrid Foërster
Professor of Neurology, Univ. of Breslau; *Surgeon-in-chief pro tem., P. B. B. H., October 1 to October 14, 1930.*

Mr. George E. Gask
Graduate of St. Bartholomew's Hospital, London, England; Consulting Surgeon, B. E. F., receiving C.M.G. and a D.S.O.; Surgeon and Director of Surg. Unit to St. Bartholomew's Hosp.; Professor of Surgery, Univ. of London; *Surgeon-in-chief pro tem., P. B. B. H., March 20 to April 3, 1921.*

Dr. Duncan Graham
M.D., Univ. of Toronto, 1905; Professor of Medicine, Univ. of Toronto; Physician-in-chief, Toronto General Hospital; *Physician-in-chief pro tem., P. B. B. H., March 3 to March 10, 1929.*

Dr. Evarts Graham
M.D., Rush Medical College, 1907; Professor of Surgery, Washington Univ., St. Louis, Mo.; *Surgeon-in-chief pro tem., P. B. B. H., April 26, 1925-May 3, 1925.*

Dr. James B. Herrick
A.B., Univ. of Mich., 1882 (Hon. A.M., *ibid.*, 1907); M.D., Rush Medical College, 1888; Professor of Medicine, *ibid.*, 1900; Attending Physician, Presbyterian Hospital, Chicago, Illinois, 1895; *Physician-in-chief pro tem., P. B. B. H., February 15 to February 21, 1924.*

Dr. George J. Heuer
M.D., Johns Hopkins Univ., 1907; successively Associate Professor of Surgery, Johns Hopkins Univ., Professor of Surgery, Univ. of Cincinnati, and Professor of Surgery, Cornell Univ. Medical School, New York, *Surgeon-in-Chief pro tempore, P. B. B. H., July 12-16, 1932.*

Dr. Albion Walter Hewlett
B.S., Univ. of Cal., 1895; M.D., Johns Hopkins Medical School, 1900; Professor of Internal Medicine, Univ. of Mich., 1908-16; Professor of Medicine, Leland-Stanford Jr. Univ., San Francisco, 1916-25; *Physician-in-chief pro tem., P. B. B. H., May 1 to May 4, 1915, and January 2 to January 8, 1916. Died November 10, 1925.*

Dr. Charles F. Hoover
M.D., Harvard, 1892; Professor of Medicine, Western Reserve Univ., Cleveland, Ohio; *Surgeon-in-chief pro tem., P. B. B. H., February 3 to February 9, 1924. Died June 15, 1927.*

Dr. Campbell P. Howard
M.D., McGill, 1901; Professor of Medicine, McGill University, Montreal; Physician to Montreal General Hospital, Montreal; *Physician-in-chief pro tem., P. B. B. H., November 16 to November 21, 1931.*

Dr. Samuel W. Lambert
A.B., Yale, 1880; Ph.B., *ibid.*, 1882; M.D., Columbia, 1885; A.M., Yale, 1905; D.Sc., Columbia, 1921; Professor Clinical Medicine, Columbia, 1903-19; Dean, Coll. Phys. and Surgs. (Columbia), 1904-19; Attending Physician, New York Hosp., 1896-1909; Attending Physician, St. Luke's Hosp., 1906; *Physician-in-chief pro tem., P. B. B. H., January 24 to January 30, 1926.*

Dr. Henry Robert Murray Landis
A.B., Amherst, 1894; M.D., Jefferson Med. Coll., 1897; Director, Clinical and Sociological Departments, Henry Phipps Institute, Philadelphia, Pennsylvania; *Physician-in-chief pro tem., P. B. B. H., Jan. 18 to Jan. 25, 1919.*

Prof. René Leriche
Professor of Surgery, University of Strasbourg; Professor of Surgery, University of Lyons, 1932; *Surgeon-in-chief pro tem., P. B. B. H., June 12 to June 20, 1929.*

Dr. Dean Dewitt Lewis
A.B., Lake Forest Univ., 1895; M.D., Rush Med. Coll., 1899; Associate Professor of Surgery, Rush Medical College, 1919-25; Attending Surgeon, Presbyterian Hosp., Chicago; Professor of Surgery, Johns Hopkins Univ., 1925; *Surgeon-in-chief, pro tem., P. B. B. H., March 15 to March 24, 1920.*

VISITING PHYSICIANS AND SURGEONS

Sir Thomas Lewis
C.B.E.; F.R.C.P.; F.R.S.; M.D., University College, London, England, 1906; Physician, University College, London, England; Physician to Staff of Med. Research Comm.; *Physician-in-chief pro tem., P. B. B. H., October 26 to November 2, 1914.*

Dr. Warfield T. Longcope
A.B., Johns Hopkins Univ., 1897; M.D., *ibid.,* 1901; Bard Professor of Medicine, Columbia Univ., New York, 1914-21; Professor of Medicine, Johns Hopkins Univ., and Physician-in-chief, Johns Hopkins Hospital, 1922; *Physician-in-chief pro tem., P. B. B. H., January 13 to January 20, 1917.*

Dr. William De B. Macnider
M.D., Univ. of N. C., 1903; Professor of Pharmacology, Univ. of N. C., 1905; *Physician-in-chief pro tem., P. B. B. H., April 13 to April 17, 1925.*

Dr. Thomas McCrae
A.B., Univ. of Toronto, 1891; M.B.; M.D., *ibid.,* 1903; F.R.C.P., England; Associate Professor of Medicine, Johns Hopkins Univ., 1906-12; Professor of Medicine, Jefferson Med. Coll., 1912; Physician to Jefferson and Penn. Hosps.; *Physician-in-chief pro tem., P. B. B. H., March 13 to March 19, 1921.*

Dr. James S. McLester
A.B., Univ. of Alabama, 1896; M.D., Univ. of Virginia, 1899; Prof. of Med., Univ. of Alabama; *Physician-in-chief pro tem., P. B. B. H., April 27 to May 3, 1930.*

Prof. Gunnar Nyström
Professor of Surgery, University of Upsala, Sweden; *Surgeon-in-chief pro tem., P. B. B. H., May 23 to May 26, 1930.*

Sir D'Arcy Power, K.B.E.
M.A., M.B., Univ. of Oxford, 1882; F.R.C.S. (England), 1883; Consulting Surgeon, St. Bartholomew's Hospital, London, England; *Surgeon-in-chief pro tem., P. B. B. H., April 20 to May 5, 1924.*

Prof. Vittorio Putti
Professor of Orthopedics, University of Bologna; Director, Istituto Ortopedico Rizzoli; *Surgeon-in-chief pro tem., P. B. B. H., May 30 to June 6, 1932.*

Dr. David Riesman
M.D., Univ. of Pa., 1892; Prof. Clin. Med., *ibid.;* Physician, Philadelphia General Hospital and University Hospital, Pa.; Clinician, Philadelphia; *Physician-in-chief pro tem., P. B. B. H., April 25 to May 2, 1927.*

Dr. Emmet Rixford
M.D., Cooper Medical College, San Francisco, 1891; Professor of Surgery, Leland-Stanford Jr. Univ.; *Surgeon-in-chief pro tem., P. B. B. H., April 25 to May 9, 1927.*

SIR HUMPHRY ROLLESTON, Bart.
G.C.V.O.; K.C.B.; M.A. and M.D., Cambridge University; Fellow and sometime President of the Royal College of Physicians of London; Hon. D.Sc., D.C.L., LL.D.; Fellow and sometime President of the Royal Society of Medicine; Consulting Physician (Temporary Surgeon Rear-Admiral) to the Royal Navy, 1914-19; Emeritus Physician, St. George's Hospital, London; Physician in Ordinary to H. M., the King; Regius Professor of Physic, University of Cambridge, Cambridge, England; *Physician-in-chief pro tem., P. B. B. H., March 25 to April 1, 1928.*

DR. CLARENCE L. STARR
M.B., Univ. of Toronto; M.D., Univ. of New York; LL.D.; Professor of Surgery, Univ. of Toronto; Surgeon-in-chief, Toronto General Hosp.; *Surgeon-in-chief pro tem., P. B. B. H., March 7 to March 16, 1926. Died December 25, 1928.*

SIR HAROLD J. STILES
Kt., cr. 1918; K.B.E., cr. 1919; M.B., C.M., F.R.C.S., Edinburgh; British Colonel, R.A.M.C.; Mem. Army Med. Advisory Board; Surgeon, Royal Edinburgh Hosp. for Sick Children, and Chalmers Hosp.; Professor of Clinical Surgery, 1919-25; Late Lecturer on Applied Anatomy, Univ. of Edinburgh; *Surgeon-in-chief pro tem., P. B. B. H., April 8 to April 21, 1923.*

DR. WILLIAM S. THAYER
A.B., Harvard, 1885; M.D., *ibid.*, 1889; LL.D., Washington Coll., 1907; Hon. F.R.C.P.I., 1912; Brig. General, U. S. A. M. C., 1918-19; Professor of Medicine, Johns Hopkins Univ., 1919-21; Physician-in-Chief, Johns Hopkins Hosp., 1919-21; Visiting Physician, Johns Hopkins Hosp., 1921; *Physician-in-Chief pro tem., P. B. B. H., November 14 to November 21, 1913. Died December 10, 1932.*

SIR CUTHBERT WALLACE
C.B., 1918; K.C.M.G., 1916; M.B., B.S., London; F.R.C.S., Eng.; Surgeon to St. Thomas' Hosp.; Dean, St. Thomas' Hosp. Med. School; Late Surgeon, East London Hosp. for Children; Lecturer on Surgery, St. Thomas' Hosp.; served in South Africa as Surgeon to Portland Hosp., 1900; European War, 1914-18; Maj. Gen., A. M. S.; Consulting Surgeon, B. E. F., France; *Surgeon-in-Chief pro tem., P. B. B. H., April 24 to May 8, 1922.*

PROF. DAVID PERCIVAL DALBRECK WILKIE
O.B.E., M.D., M.Ch., F.R.C.S. (Edin. and Eng.); Professor of Surgery, University of Edinburgh; Surgeon to the Edinburgh Royal Infirmary; *Surgeon-in-chief pro tem., October 8 to October 11, 1929.*

DR. ROLLIN TURNER WOODYATT
B.S., Univ. of Chicago, 1896; M.D., Rush Med. Coll., 1902; Clin. Professor of Medicine, Univ. of Chicago; Attending Physician, Presbyterian Hosp., Chicago; *Physician-in-Chief pro tem., P. B. B. H., December 16 to December 23, 1921.*

Traveling Fellows in Surgery

Leo M. Davidoff 1926
Harlan F. Newton 1927
Franc D. Ingraham 1928
William deG. Mahoney..... 1932

George Gorham Peters Traveling Fellows

Arthur J. McLean 1929
Eric Oldberg 1930
Frank N. Glenn 1931

Harvey Cushing Fellow

Kenneth Wade Thompson, Mar. 1-July 1, 1933

Register of Present Members of the Staff

Abbreviations

P. B. B. H.	—Peter Bent Brigham Hospital	M. G. H.	—Massachusetts General Hospital
B. C. H.	—Boston City Hospital	Harv.	—Harvard University
J. H. H.	—Johns Hopkins Hospital	H. O.	—House Officer

Adams, Leyland J.
M.D., C.M., McGill, 1927; Interne in Pathol., Montreal Gen. Hosp., 1927-28; Interne in Med., *ibid.*, 1928-29; Interne in Surg., *ibid.*, 1929-30; *Asst. Res. Phys., P. B. B. H., September 1, 1930-July 1, 1932;* in practice, Montreal, Canada.

Altschule, Mark D.
B.S., College of City of N. Y., 1927; M.D., Harv., 1932; *Pathol. H. O., P. B. B. H., January-July, 1932;* Med. H. O., Beth Israel Hosp.

Aub, Joseph C.
A.B., Harv.; M.D., *ibid.*, 1916; Physician-in-Chief, Huntington Memorial Hospital; Assoc. Prof. of Med., Harv.; *Sr. Assoc. in Med., P. B. B. H.*

Bartram, Edward A.
M.D., Univ. of Western Ontario, 1928; Rotating Interne, Montreal Gen. Hosp., 1928-29; Sr. in Pathol., *ibid.*, 1929-30; Demonstrator in Pathol., McGill Univ., 1929-30; Sr., Med. Serv., Montreal Gen. Hosp., 1930-31; Asst. in Med., Harv.; *Asst. Res. Phys., P. B. B. H.*

Bennett, Darwin E.
B.S., Whitman, 1924; M.D., Harv., 1931; *Pathol. H. O., P. B. B. H., July 1, 1931-January 1, 1932; Surg. H. O., ibid., January 1, 1932-May 1, 1933.*

Berry, Arthur N.
B.A., Univ. of the South, 1926; M.D., Harv., 1930; House Surg., Free Hosp. for Women, Aug. 1, 1930-March 31, 1931; *Surg. H. O., P. B. B. H., April 1, 1931-May 1, 1932; H. O., B. L. I., May 1, 1932-November 15, 1932;* in practice, Columbus, Ga.

Bishop, Courtney Craig
A.B., Yale, 1926; M.D., *ibid.*, 1930; *Surg. H. O., P. B. B. H., October 1, 1930-May 1, 1932; Asst. Res. Surg., ibid., May-September, 1932;* Asst. Res. Surg., N. Y. Hosp.; Asst. in Surg., Cornell Med. Sch.

Blotner, Harry H.
A.M., Harv., 1931; M.D., Tufts, 1924; Gen. Interne, Eastern Maine Gen. Hosp., July 1, 1924-July 1, 1925; *Asst. Res. Phys., P. B. B. H., Dec. 8, 1925-Dec. 1, 1926;* Asst. in Med., H. M. S.; *Jr. Assoc. in Med., P. B. B. H., Dec. 1, 1926-Sept. 1, 1927;* Consultant, Weymouth Hosp.; Asst. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H.*

Branch, Charles D.
M.D., Univ. of Mich., 1931; Interne, Lakeside Hosp., 1932-33; *Asst. Res. Surg., P. B. B. H.*

Bright, Ernest F.
A.B., Hiram Coll., Ohio, 1925; M.D., Harv., 1929; Pathol. H. O., Palmer Mem. Hosp., 1929-30; Interne in Surg., Lakeside Hosp., 1930-31; Crile Teach. Fellow in Surg., Western Reserve Univ., 1931-32; Asst. Res. Surg., Lakeside Hosp., July-August, 1932; *Asst. Res. Surg., P. B. B. H.*

Bysshe, Stanley M.
A.B., Harv., 1927; M.D., *ibid.,* 1931; *Surg. H. O., P. B. B. H.,* April 1, 1931-August 1, 1932.

Cannon, Walter Bradford
A.B., Harv., 1896; A.M., *ibid.,* 1897; M.D., *ibid.,* 1900; S.D., Yale, 1923; LL.D., Wittenberg, 1927, Boston University, 1929; Doctor, Liege, 1930; Doctor, Strasbourg, 1930; Doctor, Paris, 1931; C.B. (military), 1919; D.S.M., 1922; Instr. in Zoölogy, Harv., 1899-1900; Instr. in Physiol., *ibid.,* 1900-02; Asst. Prof. Physiol., *ibid.,* 1902-06; George Higginson Prof. Physiol., *ibid.;* Fellow, Am. Acad., 1906; Mem. Am. Philos. Soc., 1908; Mem. Nat. Acad. of Sciences, 1914; Croonian Lecturer, Royal Society, London, 1918; Corr. Mem., Société de Biologie, Paris, 1919; Reale Accademia delle Scienze, Bologna, 1921; Honorary Member, Sociedad de Biologia, Buenos Aires, 1922; Assoc. Mem., Société Belge de Biologie and Société de Psychologie, Paris, 1930; Foreign Honorary Fellow, Royal Society Edinburgh, 1930; Exchange Professor for France, 1929-30; Baly Medalist, Royal College of Physicians, London, 1931; Member, Kaiserliche Deutsche Akademie der Naturforscher, Halle, 1932; Honorary Member, Academia de Medicina, Barcelona, 1932; *Consult. Physiol., P. B. B. H.*

Cheever, David
A.B., Harv., 1897; M.D., *ibid.,* 1901; Surg. H. O., B. C. H., 1901-03; Asst. in Anat., Harv., 1903-08; Asst. Visit. Surg., B. C. H., 1905-12; Demonstr. in Anat., Harv., 1908-13; Asst. Prof. Surg. Anat., Harv.; Chief Surg., 2d Harv. Unit, B. E. F., France, 1915-16; Assoc. Prof. of Surg., Harv.; *Surg., P. B. B. H.*

Christian, Henry Asbury
A.B., and A.M., Randolph-Macon, 1895; Grad. Stud., *ibid.,* 1895-96; LL.D., *ibid.,* 1923; M.D., Johns Hopkins, 1900; A.M., Harv.,

1903; Sc.D. (Hon.) Jefferson, 1928; LL.D., Western Reserve, 1931; Asst. Pathol., B. C. H., 1900-02; Asst. Visit. Pathol., *ibid.*, 1902-05; Asst. Visit. Pathol., Children's Hosp., Boston, 1902-05; Instr. in Pathol., Harv., 1902-05; Asst. Visit. Phys., Long Island Hosp., Boston, 1905; in charge of med. students, M. G. H., 1905-07; Instr. in Theory and Practice of Physic, Harv., 1905-07; Asst. Prof. in Theory and Practice of Physic, *ibid.*, 1907-08; Phys.-in-Chief, Carney Hosp., Boston, 1907-12; Dean, Faculty of Med. and of Med. Sch., Harv., 1908-12; Fellow, Am. Acad.; Corr. Mem., Wiener Gesellschaft. f. innere Medizin, etc.; formerly Major, M. R. C., U. S. Army; (on leave of absence Oct. 1, 1919-Oct. 1, 1920, as Chairman, Div. of Med. Sciences, Nat'l Research Council, Washington, D. C.); Hersey Prof., Theory and Practice of Physic, Harv., since 1908; *Physician-in-Chief, P. B. B. H.*

Clay, Charles L.

B.S., Dart., 1919; M.D., Columbia Univ., Coll. of Phys. and Surgs., 1921; Interne, Lawrence General Hosp., 1921-22; Asst. Phys., Danvers State Hosp., 1922-28; *2nd Asst. Supt., P. B. B. H., January 15, 1928-July 1, 1930; 1st Asst. Supt., ibid.*

Clifford, Milton Henry

A.B., Harv., 1927; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H., Nov. 1, 1931-Mar. 1, 1933.*

Clifford, Randall

A.B., Harv., 1912; M.D., *ibid.*, 1917; Sr. Grade, U. S. Navy Med. Corps; Visit. Phys., Prendergast Preventorium, 1923-24; Asst. Phys., Channing Home, 1924-29; Asst. to Out-Patients, M. G. H., 1923-29; Assoc. in Med., M. G. H., 1929-31; Asst. in Med., Harv.; *Assoc. in Med., P. B. B. H.*

Cox, William V.

A.B., Univ. of Mich., 1921; M.D., Harv., 1925; H. O., Lakeside Hosp., 1925-26; Asst. Res., *ibid.*, 1926-28; Crile Fellow in Surg., Western Reserve Univ., 1928-29; *Asst. Res. Surg., P. B. B. H., July 15, 1929-Jan. 6, 1930;* Res. Surg., Lakeside Hosp., Jan., 1930-July, 1931; Instr. in Surg., Western Reserve Univ., 1931-32; Asst. Surg., Lakeside Hosp., 1931-32; Asst. Surg., Disp., *ibid.*, 1931-32; *Jr. Assoc. in Surg., P. B. B. H.*

Cushing, Harvey

A.B., Yale, 1891; A.M. and M.D., Harv., 1895; House Pupil, M. G. H., 1895-96; Res. Surg., J. H. H., 1896-1900; successively Asst., Instr. and Assoc. Prof. in Surg., J. H. M. S., 1898-1912; Hon. F.R.C.S., London, 1913, Ireland, 1918, and Edinburgh, 1927; Hon. A.M., Yale, 1913; D.Sc., Washington, 1915, and Yale, 1919; LL.D., Western Reserve, 1919, Cambridge, 1920, Glasgow, 1927, Edinburgh, 1927; Litt.D., Jefferson, 1926, Dartmouth, 1929; Dr. (*Hon. caus.*), Strasbourg, 1929, Brussels, 1930, Bern, 1931; Budapest, 1931; Amsterdam, 1932; Am. Acad. of Arts and Sciences, 1914; Nat. Acad. Sciences, 1917; Am. Phil. Soc. 1930; Director U. S. A. Base

Hosp. No. 5, 1916-1919; Col., M. C., U. S. A.; Companion of the Bath; D.S.M.; Offic. Legion d'Honneur; Stud., St. Bartholomew's, 1922; Mickle Fellow, Univ. of Toronto, 1922; Cameron Prize, Univ. of Edinburgh, 1924; Macewen Lecturer, Univ. of Glasgow, 1927; Lister medalist, Royal Coll. Surg. (London), 1930; Moseley Prof. of Surg., Harv., 1912-32; *Surgeon-in-chief, P. B. B. H., 1912-1932; Surg.-in-chief Emeritus, ibid.*

Cutler, Elliott Carr
A.B., Harv., 1909; M.D., *ibid.,* 1913; *Surg. H. O., P. B. B. H., Nov. 1, 1913-March 1, 1915;* Res. Surg., Harv. Unit, Am. Ambulance Hosp., Paris, France, 1915; Res. Surg., M. G. H., 1915-16; Alumni Asst. in Surg., Harv., 1915-16; Vol. Asst., Rockefeller Inst., New York, 1916-17; Major M. C., U. S. Army; D.S.M., 1917-19; Instr. in Surg., Harv., 1921-24; *Res. Surg., P. B. B. H., Aug. 1, 1919-Sept. 1, 1921; Assoc. in Surg., ibid., Sept. 1, 1921-July 1, 1924;* Chairman, Dept. of Surg., and Director of Lab. of Surg. Research, Harv., 1922-24; Prof. of Surg., Western Reserve Univ. Med. Sch., and Chief Surg., Lakeside Hosp., Cleveland, Ohio, 1924-1932; Moseley Prof. of Surg., Harv.; *Surgeon-in-chief, P. B. B. H.*

Davenport, Lowrey F.
B.S., Emory, 1927; M.D., Univ. of Rochester, 1931; *Med. H. O., P. B. B. H., July 1, 1931-Nov. 1, 1932;* Research Fellow in Med., Harv.

Day, Hilbert Francis
Ph.B., Yale, 1901; M.D., Harv., 1905; Surg. H. O., B. C. H., 1905-07; House Phys., Boston Lying-in-Hosp., 1907-08; 3rd Asst. Visit. Surg., B. C. H. (Gynecol. Dept.), 1908-09; District Phys., Boston Disp., 1909-12; Asst. Surg., Boston Disp., 1912-14; Surg., *ibid.,* 1914-19; Asst. in Surg., Harv., 1919-21; Instr. in Surg., *ibid.;* Prof. in Clin. Surg., Tufts; Surg.-in-chief, Boston Disp.; *Assoc. in Surg., P. B. B. H., 1914-1933;* Consult. Surg., Mass. State Prison Colony, Norfolk, Mass.

Denny, George Parkman
A.B., Harv., 1909; M.D., *ibid.,* 1913; *Med. H. O., P. B. B. H., June 1, 1913-July 1, 1914;* Vol., Lab. of Physiol. Research, Johns Hopkins, 1914-15; Capt., M. C., U. S. Army; Alumni Asst. in Med., Harv., 1915-16; Phys. to Med. Students, *ibid.;* Director of Scholarships, *ibid.;* Attend. Phys., Channing Home, Boston; Assoc. Chief, Med. Dept., Boston Disp.; *Assoc. in Med., P. B. B. H.*

Derick, Clifford L.
M.D., McGill Univ., 1918; H. O., Montreal Gen. Hosp., 1919-22; Fellow, Nat. Research Council, 1922-23; *Asst. Res. Phys., P. B. B. H., 1923-24;* Asst. in Med. and Research Fellow in Bio-Chemistry, Harv., 1923-24; Asst. Res. Phys., Rockefeller Hosp., N. Y., 1924-28; Asst. Prof. Med., Harv.; *Physician, P. B. B. H.*

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B.A., Univ. of Wis., 1927; M.D., Harv., 1931; Surg. H. O., Children's Hosp., Boston, 1931-32; *Surg. H. O., P. B. B. H.*

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B.A., Columbia, 1927; M.D., Yale, 1931; Substitute Interne, New Haven Hosp., Oct., 1930-May, 1931; *Surg. H. O., P. B. B. H., Oct. 1, 1931-Feb. 1, 1933;* Asst. Res. Surg., New Haven Hosp.

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EGLOFF, WILLIAM C.
S.B., Univ. of Chicago, 1923; M.D., *ibid.*, 1927; Interne, St. Luke's Univ. of Chicago, Jan.-July, 1928; *Jr. Assoc. in Med., P. B. B. H.* Univ. of Chicago, Jan.-July, 1928; *Jr. Assoc. in Med., P. B. B. H., Sept. 1, 1928-Aug. 1, 1932;* in practice, Mason City, Iowa.

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M.D., Tufts, 1925; Interne, N. E. Hosp. for Women and Children, 1925-26; Attend. Phys., *ibid.*, 1926-29; Consult. Neurol., *ibid.; Jr. Assoc. in Neurol. Surg., P. B. B. H.*

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A.B., Harv., 1916; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., Nov. 1, 1920-March 1, 1922; H. O. X-ray Dept., ibid., July 1, 1922-July 1, 1923;* Stud. in Clin. of Dr. Sippy, Presbyterian Hosp., Chicago, 1923-24; Asst. in Med., Harv.; Phys. to Boston Disp.; *Jr. Assoc. in Med., P. B. B. H., April 24, 1924-May 10, 1926; Assoc. in Med., ibid.*

EPPINGER, EUGENE CHARLES
A.B., Williams, 1926; M.D., Harv., 1930; *Med. H. O., P. B. B. H., Mar. 1, 1931-July 1, 1932; Asst. Res. Phys., P. B. B. H.*

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A.B., Univ. of Cal., 1927; M.D., Harv., 1931; *Med. H. O., P. B. B. H., Nov. 1, 1931-Mar. 1, 1933.*

EVANS, WILLIAM
A.B., Williams, 1926; M.D., Johns Hopkins, 1930; *Med. H. O., P. B. B. H., July 1, 1930-Feb. 19, 1931, and Oct. 1, 1931-July 1, 1932.*

FITZ, REGINALD
A.B., Harv., 1906; M.D., *ibid.*, 1909; Med. House Pupil, M. G. H., 1910-11; Vol. Asst. in Pharmacol. and in Med. Clinic, J. H. H.,

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Fleming, Robert
A.B., Trinity, 1924; A.M., Harv., 1926; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H., Nov. 1, 1931-Mar. 1, 1932.*

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M.D., Emory, 1929; Interne, Wesley Mem. Hosp., Atlanta, Georgia, 1929-30; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1930-July 1, 1932;* Asst. Plantation Phys., Estates of Central Aguirre, Porto Rico.

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Ph.B., Brown Univ., 1920; Rhodes Scholar, Oxford; A.B., Oxford Univ., 1922; M.D., Johns Hopkins, 1925; Vol. Asst. in Pathol.,

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B.S., Whiteman, 1924; M.D., Harv., 1931; *Surg. H. O., P. B. B. H., Oct. 1, 1931-Feb. 1, 1933.*

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A.B., Amherst, 1919; M.A., Harv., 1921; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H.*

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GRABFIELD, GUSTAVE PHILIP
A.B., Williams, 1912; M.D., Harv., 1915; Teaching Fellow, Dept. of Pharmacol., *ibid.*, 1915-16; *Med. H. O., P. B. B. H., March 1, 1916-June 17, 1917;* Capt., M. C., U. S. Army, 1917-19; Asst. in Roent., Univ. of Mich. Hosp., 1919-20; Instr. in Pharm., Harv., 1920-21; Asst. in Pharm., *ibid.*, 1921-22; Instr. in Pharm. and Asst. in Med., *ibid.; Jr. Assoc. in Med., P. B. B. H., July 1, 1922-Nov. 12, 1925; Assoc. in Med., ibid.*

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M.D., Harv., 1928; Interne, Univ. Hosp., Ann Arbor, Michigan, 1928-30; *H. O., Roent., P. B. B. H., July 1, 1930-July 1, 1931; Asst. Res. Roent., ibid., July 1, 1931-Oct. 1, 1932.*

HASS, GEORGE MARVIN
M.D., Harv., 1929; *Pathol. H. O., P. B. B. H., Jan. 1, 1930-Jan. 1, 1931;* Asst. Res. Pathol., Children's Hosp., Jan.-Sept., 1931; Res. Pathol., *ibid.*, 1931-32; Instr. in Pathol., Harv.; *Res. Pathol., P. B. B. H.*

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M.D., Univ. of Pa., 1922; Interne, Southern Pacific Hosp., 1922-23; Private practice, San Francisco, 1923-30; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1931-Sept. 1, 1932;* Member of Staff, St. Luke's Hosp., San Francisco.

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A.B., Harv., 1899; M.D., *ibid.,* 1903; House Pupil, M. G. H., 1903-04; Asst. in Hunterian Lab., Johns Hopkins, 1908-09; Vol. Asst. Surg., Children's Hosp., Boston, 1909-10; Surg., M. G. H., O. P. D., 1910-12; Asst. in Surg., Harv., 1910-13; Surg., Boston Dispensary, 1913-14; Assoc. in Surg., Harv., 1914-15; Major, M. C., U. S. Army, 1918-19; Asst. Prof. Surg., Harv.; *Surg., P. B. B. H.*

HORRAX, GILBERT
A.B., Williams, 1909; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914;* Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv., 1914-15; *Asst. Res. Surg., P. B. B. H., 1915-16;* Res. Surg., M. G. H., 1916-17; Major, M. C., U. S. Army, 1917-19; Asst. Prof. of Surg., and Secretary, Dept. of Surg., Harv., 1925-32; Consult. Neurol. Surg., Children's Hosp., Boston, 1926-31; Consult. Neurol. Surg., N. E. Deaconess Hosp., 1926-32; *Assoc. in Neurol. Surg., P. B. B. H., Oct., 1919-March, 1928; Sr. Assoc. in Neurol. Surg., ibid., 1928-32;* in charge of Neuro-Surgery, The Lahey Clinic, Boston.

HORSFALL, JR., FRANK L.
A.B., Univ. of Wash., 1927; M.D., C.M., McGill, 1932; *Pathol. H. O., P. B. B. H.*

HOUGHTON, JOHN D.
A.B., Harv., 1927; M.D., *ibid.,* 1932; *Pathol. H. O., P. B. B. H., Jan. 1, 1932-July 1, 1932.*

HOWARD, LAWRENCE
M.D., Wash. Univ., 1928; Surg. Interne, Barnes Hosp., 1928-29; Surg. Pathol. Work, Cleveland Clinic, 1929-30; Fellow in Surg., *ibid.,* 1930-32; *Fellow in Urol., P. B. B. H.*

HOWLAND, JOSEPH BRIGGS
M.D., Harv., 1896; Surg. House Pupil, M. G. H., 1896-97; Asst. Phys., State Hosp., Tewksbury, Massachusetts, 1898-1901; Asst. Supt., *ibid.,* 1901-02; Supt., State Colony for the Insane, Gardner, Massachusetts, 1902-07; Asst. Res. Phys., M. G. H., 1907-17; Asst. Administrator, *ibid.,* 1908-17; Act. Administrator and Res. Phys., *ibid.,* 1917-19; Pres., American Hosp. Assoc., 1919-20; Mem. Mass. State Bd. of Reg. of Nurses, 1919-24; Pres., N. E. Hosp. Assoc., 1921-22; Trustee, *ibid.;* Lecturer, Hosp. Adm., Harv.; Secretary, Harvard Cancer Comm.; Administrator, Collis P. Huntington Mem. Hosp. (Harv.); *Supt., P. B. B. H.*

HOYT, LYMAN HOWARD
B.S., Univ. of Iowa; M.D., *ibid.*, 1925; Med. Interne, Univ. Hosp., Iowa City, 1925-26; Asst. in Med., Harv.; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1926-Nov. 1, 1927; Jr. Assoc. in Med., ibid.*

HUMPHREYS, STORER P.
B.A., Norwich Univ., Northfield, Vt., 1928; M.D., Yale, 1932; *Surg. H. O., P. B. B. H.*

ILFELD, FREDERIC WILLIAM
A.B., Harv., 1928; M.D., *ibid.*, 1932; *Pathol. H. O., P. B. B. H., July 1, 1932-Jan. 1, 1933.*

KANE, JOHN W.
B.S., Univ. of Notre Dame, 1926; M.D., Harv., 1930; *Surg. H. O., P. B. B. H., Apr. 1, 1931-Aug. 1, 1932.*

KENDALL, LEE GORDON
A.B., Harv., 1925; M.D., *ibid.*, 1930; *Surg. H. O., P. B. B. H., Oct. 1, 1930-Feb. 1, 1932; Asst. Res. Surg., ibid., Feb. 1, 1932-Sept. 1, 1932.*

KENT, HAROLD A.
H.D.S., 1919; Assoc. to Dr. Miner, Prof. of Oral Surg. and Dean, H.D.S.; *Dental Surg., P. B. B. H., 1922-29;* Dental Surg., Forsyth Dental Infirmary; Asst. Prof., Oral Surg., H.D.S.; Dental Surg., N. E. Deaconess Hosp.; *Consult. Dental Surg., P. B. B. H., 1929-33.*

LEVINE, HAROLD D.
M.D., Harv., 1932; Pathol. Interne, Beth Israel Hosp., 1932-33; *Med. H. O., P. B. B. H.*

LEVINE, SAMUEL ALBERT
A.B., Harv., 1911; M.D., *ibid.*, 1914; *Assoc. in Med., P. B. B. H., July 1, 1914-July 1, 1915; Med. H. O., ibid., July 1, 1915-Nov. 1, 1916;* Moseley Travelling Fellow, Harv., 1916-17; Asst., Rockefeller Inst. Hosp., New York, 1916-17; Capt., M. C., U. S. Army, 1917-19; Instr. in Med., Harv., 1919-30; Asst. Prof. of Med., Harv.; Consult. Phys., Boston Psychopathic Hosp., 1921-24; Phys. to Boston Disp., 1924-26; Visit Phys., Beth Israel Hosp.; *Assoc. in Med., P. B. B. H., Aug., 1919-March, 1928; Sr. Assoc. in Med., ibid.*

LIGHT, RICHARD U.
Ph.B., Yale, 1924; M.D., Univ. of Mich., 1928; *Surg. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930;* Arthur Tracy Cabot Fellow, Harv.; *Jr. Assoc. in Surg., P. B. B. H., Jan. 5, 1931-Mar. 24, 1932; Asst. Res. Surg., ibid.*

MACDONALD, DONALD
B.A., Johns Hopkins, 1922; M.D., *ibid.*, 1926; *Jr. Assoc. in Oto-Laryngology, P. B. B. H.*

MacPherson, Donald John
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Mahoney, William deG.
A.B., Holy Cross, 1925; M.D., Harv., 1929; *Surg. H. O., P. B. B. H., Oct. 1, 1929-Feb. 1, 1931; Asst. Res. Surg., ibid., Mar. 15, 1931-Apr. 1, 1932; P. B. B. H. Traveling Fellow in Surg., 1932;* Asst. Res. Surg., N. Y. Hosp.; Asst. in Surg., Cornell Univ.

Marks, Joseph H.
B.A., Univ. of Wis., 1925; M.A., *ibid.,* 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H., Mar. 1, 1930-July 1, 1931; H. O., Roent., ibid., July 1, 1931-Apr., 1932;* Member of Staff, N. Y. State Hosp. for Incipient Tbc., 1932; *Asst. Res. Roent., P. B. B. H.*

Marquis, Fred M.
B.A., Univ. of Iowa, 1927; M.D., *ibid.,* 1931; *Pathol. H. O., P. B. B. H., July 1, 1931-Jan. 1, 1932.*

McLester, James Bowron
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Ph.B., Yale, 1921; M.D., Cornell, 1927; *Pathol. H. O., P. B. B. H., Sept. 1, 1927-Jan. 1, 1928; Surg. H. O., ibid., April 1, 1928-Aug. 1, 1929; Asst. Res. Surg., ibid, Aug. 1, 1929-May 1, 1930; Jr. Assoc. in Surg., ibid., May-Oct., 1930; Asst. Res. Surg., ibid., Oct. 1, 1930-June 1, 1931;* Arthur Tracy Cabot Fellow in Surg., Harv., 1930; *Res. Surg., P. B. B. H., June 1, 1931—Sept. 1, 1932.*

Midelfart, Christian Fredrik
A.B., Yale; M.D., Johns Hopkins, 1931; *Med. H. O., P. B. B. H.*

Midelfart, Peter A. H.
A.B., Yale, 1927; M.D., Harv., 1931; *Med. H. O., P. B. B. H., May 28, 1931-July 1, 1932; Surg. H. O., ibid.*

Miner, Leroy M. S.
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Minot, George R.
A.B., Harv., 1908; M.D., *ibid.,* 1912; S.D., Harv., 1928; Fellow, American Academy Arts and Sciences; Honorary Fellow, Royal College of Phys., Edinburgh, 1931; Correspondent etranger, Royal Acad. of Med., Belgium, 1931; Hon. Fellow, Royal Society of Med., London, 1932; Med. H. O., East Med. Serv., M. G. H., July, 1912-Dec., 1913; Asst. Res. Phys., Johns Hopkins, 1913-14; Asst. in Med., Johns Hopkins, 1914-15; Special Research Worker, Johns Hopkins, 1914-15; Asst. in Med., Harv., 1915-18; Asst. in Med.,

M. G. H., 1915-18; Asst. in Chem., Harv., 1915-16; Dalton Scholar, M. G. H., 1916-20; Visit. Phys., St. Luke's Convalescent Home, Boston, 1916-18; Assoc. in Med., M. G. H., 1918-23; Asst. Consult. Phys., Huntington Mem. Hosp., 1917-19; Phys., *ibid.*, 1919-23; Contract Surg., U. S. A., Sept., 1917, and Sept. 15-Nov. 10, 1918; Consult. Phys., Mass. Eye and Ear Infirmary, 1922-24; Phys. to Special Clinic, M. G. H., 1923-25; Asst. Prof. of Med., Harv., 1918-27; Clin. Prof. of Med., *ibid.*, 1927-28; Phys. and Chief of Med. Labs., Huntington Mem. Hosp.; *Assoc. in Med., P. B. B. H., Feb. 12, 1925-March 8, 1928;* Member, Board of Consultation, M. G. H.; Director, Thorndike Mem. Lab.; Visiting Phys., Second and Fourth Medical Services (Harvard) Boston City Hospital; Consult. Phys., Beth Israel Hosp.; Prof. of Med., Harv.; *Consult. Phys., P. B. B. H.*

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Murphy, William P.

A.B., Univ. of Ore., 1914; M.D., Harv., 1922, as of 1920; H. O., R. I. Hosp., 1920-22; *Asst. Res. Phys., P. B. B. H., 1922-23;* Asst. in Med., Harv., 1924-28; Instr. in Med., *ibid.; Jr. Assoc. in Med., P. B. B. H., July 10, 1923-May 10, 1926; Assoc. in Med., ibid.*

Myers, Daniel Wilbur

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Myers, Gordon

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Newton, Harlan Fay

A.B., Yale, 1916; M.D., Harv., 1920; Pathol. H. O., B. C. H., 1920-21; *Surg. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923; Asst. Res. Surg., ibid., Oct. 1, 1923-July 1, 1924; Res. Surg., ibid., July 1, 1924-Oct. 1, 1926;* Austin Teach. Fellow in Surg., Harv., 1924-27; Workman Fellow in Physiol., *ibid.*, 1926-27; *Moseley and P. B. B. H. Travel. Fellow in Surg., 1927-28;* Asst., first Med. Clin.,

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A.B., Harv., 1899; M.D., *ibid.*, 1902; House Pupil, M. G. H., 1902-03; Asst. G. U. Surg., Boston Disp., 1907-09; Asst. Surg., N. E. Baptist Hosp., Boston, 1908-14; in charge of Experimental Surg., Brady Clin., J. H. H., 1914-16; Assoc. in Urol., *ibid.*, 1915-16; Clin. Prof., G. U. Surg., Harv.; *Urol. Surg., P. B. B. H.*

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B.S., Franklin College, 1924; M.D., Northwestern, 1928; Interne, Passavant Memorial Hospital, Chicago, Ill., and Wesley Memorial Hosp., Chicago, Ill., 1928-29; *Surg. H. O., P. B. B. H., Jan. 1, 1930-May 1, 1931; Asst. Res. Surg., ibid., June 1, 1931-Sept. 1, 1932.*

RICHARDS, LYMAN G.
A.B., Harv., 1916; M.D., *ibid.*, 1919; in Smyrna with Near East Relief, 1919; Surg. H. O., St. Luke's Hosp., New York, 1920-22; Mass. Eye and Ear Infirmary, Ear, Nose and Throat Serv., 1922-24; Chief in Otolaryngology, Children's Hosp., Boston; Assoc. in Otolaryngology, New England Deaconess Hosp.; Consultant in Bronchoscopy, Union Hosp., Fall River; Permanent Staff, Baptist Hosp., Boston; *Assoc. in Otolaryngology, P. B. B. H., June 12, 1924-Oct. 9, 1930; Consultant in Otolaryngology, ibid., 1930-32.*

RICHTER, ARTHUR B.
A.B., Indiana Univ., 1925; M.D., *ibid.* 1931; Rotating Interne, Indiana Univ. Hosp., 1931-32; *Med. H. O., P. B. B. H.*

SALTER, WILLIAM THOMAS
A.B., Harv., 1922; M.D., *ibid.*, 1925; Med. Interne, M. G. H., 1925-27; Med. Res., *ibid.*, 1927-28; Moseley Trav. Fellow, Harv., 1928-29; Research Fellow in Med., *ibid.*, 1928-29; Tutor and Instr., Biochemical Sciences, Harv.; Faculty Instr. in Med., *ibid.*; Research Fellow in Biochemistry to Harvard Cancer Commission; Assoc. Phys., Huntington Mem. Hosp.; *Jr. Assoc. in Med., P. B. B. H.*

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B.S., Univ. of Toledo, 1929; M.D., Univ. of Mich., 1931; *Med. H. O., P. B. B. H.*

SHAMBAUGH, PHILIP
A.B., Amherst, 1926; M.D., Harv., 1930; *Med. H. O., P. B. B. H., Nov. 1, 1930-Mar. 1, 1932; Surg. H. O., P. B. B. H.*

SHILLITO, FREDERICK H.
A.B., Univ. of Mich., 1927; M.D., Harv., 1931; *Surg. H. O., P. B. B. H., Jan. 1, 1932-May 1, 1933.*

SNODGRASS, SAMUEL R.
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Sosman, Merrill C.
A.B., Univ. of Wis., 1913; M.D., Johns Hopkins, 1917; Res. Phys., Soldiers' Home Hosp., Washington, D. C., 1917-18; entered U. S. A., M. C.; Army Med. Sch., X-ray Dept., Walter Reed Hosp., 1919-21; X-ray Dept., M. G. H., 1921; Consult. Roent., C. P. Huntington Mem. Hosp.; Consult. Roent., Peabody Home for Crippled Children; Assoc. in Roent., Children's Hosp.; *Roentgenologist, P. B. B. H.*

Stead, Jr., Eugene Anson
B.S., Emory Univ., 1928; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H.*

Steel, Selwyn
M.D., Yale, 1930; Grad. Asst. in Med., M. G. H., 1930-31; *Med. H. O., P. B. B. H., Mar. 1, 1931-July 1, 1932;* Asst. in Med., Boston Disp.; in practice, Boston.

Stone, Harry
D.M.D., Tufts, 1932; *Dental Interne, P. B. B. H.*

Strock, Moses Solomon
D.M.D., Harv., 1923; Asst. in Extract. and Oral Surg., Harv., 1923-25; Instr. in Extract. and Oral Surg., *ibid.*, 1925-30; Anesthetist, Forsyth Dental Infirmary, 1925-30; Instr. in Oral Surg., Harv.; Asst. Dental Surg., M. G. H.; *Dental Surg., P. B. B. H.*

Thompson, Kenneth Wade
A.B., Leland Stanford, 1926; M.D., Harv., 1929; *Surg. H. O., P. B. B. H., Jan. 1, 1930-May 1, 1931;* Fellow in Surg. Research, Harv.; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1931- Mar. 1, 1933; Cushing Fellow, ibid., Mar. 1-July 1, 1933.*

Thrasher, Irving D.
M.D., Johns Hopkins, 1931; Rotating Interne, Johns Hopkins, 1931-33; *Pathol. H. O., P. B. B. H.*

Tremaine, Myron Jewell
B.A., Univ. of Ill., 1929; M.D., Northwestern, 1932; *Med. H. O., P. B. B. H.*

Troppoli, Daniel V.
A.B., A.M., Brown Univ., 1923;; M.D., Harv., 1927; Neurol. H. O., M. G. H., June, 1927-Jan., 1928; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929;* Res. Phys., R. I. Hosp., Aug., 1929-Oct., 1930; *Surg. H. O., P. B. B. H., July 1, 1931-Nov. 1, 1932;* in practice, Providence, R. I.

Van Auken, Howard A.
A.B., Yankton Coll., 1925; M.D., Univ. of Mich., 1931; *Med. H. O., P. B. B. H., July 1, 1931-Nov. 1, 1932;* Fellow in Med. Research, Harv.

Vogt, Edward C.
M.D., Univ. of Iowa, 1923; Interne, St. Vincent's Hosp., Toledo, Ohio, 1923-24; *H. O., X-ray Dept., P. B. B. H., Sept. 12, 1924-March 1, 1925; Asst. Res. in Roent., ibid., March 1-Sept., 1925;* Res.

in Roent., New Haven Hosp., Oct., 1925-July, 1926; Roent., Children's Hosp., Boston; Roent., Huntington Mem. Hosp., 1928; *Assoc. in Roent., P. B. B. H.*

WALCOTT, CHARLES F.
A.B., Harv., 1926; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H.*

WALKER, ISAAC CHANDLER
A.B., Johns Hopkins, 1905; M.D., *ibid.*, 1909; Grad. Stud., Lab. of Theory and Practice of Physic, Harv., 1910-11; Med. H. O., Carney Hosp., Boston, 1910-11; Lect. on Clin. Microscopy and Phys. Diag., Univ. of Iowa, 1911-12; Stud. of Prof. Morawitz, Freiburg, Germany, 1912; Research, Rockefeller Hosp., New York, 1912; *Sr. Med. H. O., P. B. B. H., Nov. 1, 1912-March 1, 1913; Asst. Res. Phys., ibid., March 1, 1913-March 1, 1914; Act. Res. Phys., ibid., March 1, 1914-Jan. 1, 1915; Asst. Res. Phys., ibid., Jan. 1, 1915-March 1, 1915 (granted leave of absence from March 1, 1915-Sept. 1, 1915)*; Med. Chief, Hosp. Ab. 32bis Passy Yonne, France, 1915; Asst. in Pharmacol., Harv.; Alumni Asst. in Med., *ibid.; Act. Phys., P. B. B. H., Aug. 1, 1917-Feb. 1, 1918, and April 1, 1918-Dec. 16, 1918;* Asst. Prof. of Med., Harv., 1918-19; *Assoc. in Med., P. B. B. H.*

WALTER, CARL WALDEMAR
A.B., Harv., 1928; M.D., *ibid.*, 1932; *Surg. H. O., P. B. B. H.*

WELLER, JR., G. LOUIS
B.A., Johns Hopkins, 1927; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H.*

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B.S., St. Louis Univ., 1922; M.D., *ibid.*, 1925; Interne, Mercy Hosp., Toledo, Ohio, 1925-26; Chief Res. Phys., Lucas Co. Hosp., Toledo, Ohio, 1926-27; Asst. Plantation Surg., Estates of Central Aguirre, Porto Rico, 1927-29; Asst., Div. of Neuropsychiatry, Henry Ford Hosp., 1929-30; *2nd Asst. Supt., P. B. B. H.*

WILKINS, GEORGE FRANKLIN
A.B., Holy Cross, 1928; M.D., Harv., 1932; *Surg. H. O., P. B. B. H.*

WOLBACH, SIMEON BURT
Stud., Harv., 2 yrs.; M.D., *ibid.*, 1903; 2nd Asst. in Pathol., B. C. H., 1903-04; 1st Asst. in Pathol., *ibid.*, 1904-05; 2nd Asst. Visit. Pathol., *ibid.*, 1905-08; Pathol., Long Island Hosp., Boston, 1905-08; Pathol., Boston Floating Hosp., 1905-08; Pathol., Mass. Infants' Asylum, 1905-08; Asst. in Pathol., Harv., 1905-06; Instr. in Pathol., *ibid.*, 1906-08; Adjunct Prof. of Pathol. and Bacteriol., Albany Med. Coll., 1908-09; Director, Bender Hygienic Lab., Albany, New York, 1908-09; Pathol., Albany City Hosp., 1908-09; Pathol., St. Peter's Hosp., Albany, 1908-09; Pathol., St. Margaret's House, Albany, 1908-09; Lecturer in Pathol., McGill Univ., 1909-11; Director, Histol. Lab., *ibid.*, 1909-11; Director, Montreal Gen. Hosp. Lab., 1909-11; Asst. Prof. of Bacteriol., Harv., 1910-14;

Assoc. Prof. of Bacteriol., *ibid.,* 1914-16; Pathol., Children's Hosp., Boston; in charge of Typhus Research Hosp., Poland, Jan.-Aug., 1920; Fellow, Am. Acad. of Arts and Sciences, 1914; Visit. Pathol., Children's Hosp., Boston, 1915; Corr. Mem. Société de Pathologie Exotique, Paris; Commander, Order of Polonia Restituta; Shattuck Prof. Pathol. Anat., Harv.; *Pathologist, P. B. B. H.*

WOOD, CORNELIUS B.
M.D., Univ. of Mich., 1930; Fellow in Pathol., *ibid.,* 1930-31; H. O., Presbyterian Hosp., Chicago, 1931-32; Arthur Tracy Cabot Fellow, Harv.; *Jr. Assoc. in Surg., P. B. B. H.*

WOOD, NATHANIEL KNIGHT
A.B., Harv., 1897; M.D., *ibid.,* 1901; H. O., B. C. H., 1902-04; H. O., Boston Lying-In Hosp., 1904; Visit. Phys., Carney Hosp., O. P. D., 1907-12; Visit. Phys., Boston Consumptives' Hosp., O. P. D., 1909-17; Phys., Boston Disp., 1912-18; *Assoc. in Med., P. B. B. H.*

WOOLSTON, STEPHEN S.
B.S., Princeton, 1924; M.D., Univ. of Pa., 1929; Interne, Pennsylvania Hosp., 1929; Interne, Protestant Episcopal Hosp., Philadelphia, 1929-31; *Asst. Res. Surg., P. B. B. H., Jan. 15, 1932-May 1, 1932.*

WOSIKA, PAUL H.
B.S., M.D., Northwestern Univ., 1931; Interne, Passavant Mem. Hosp., Chicago, 1930; Res. in Gynecology, *ibid.,* 1931; *Asst. Res. Phys., P. B. B. H.*

YOUNGE, PAUL A.
A.B., Univ. of Wis., 1927; M.D., Harv., 1931; *Surg. H. O., P. B. B. H., July 1, 1931-Nov. 1, 1932.*

ZINSSER, HANS
A.B., Columbia, 1899; A.M., M.D., *ibid.,* 1903; Sc.D., Hon. Caus., *ibid.,* 1929; Sc.D. Hon. Causa., Western Reserve Univ., 1931; House Staff, Roosevelt Hosp., 1903-05; Bacteriologist, *ibid.,* 1905-06; Asst. Bacteriologist, Columbia Univ., 1905-06; Asst. Pathol., St. Luke's Hosp., 1907-10; Instr. in Bacteriology, Columbia, 1908-10; Assoc. Prof. Bact., Leland Stanford Univ., 1910-11; Prof. of Bact., *ibid.,* 1911-13; Prof. Bact., Columbia, 1913-23; Bacteriologist, Presbyterian Hosp., 1913-23; Consult. Bact., Children's Hosp., Boston; Professor of Bacteriology, Harv.; *Consult. Bacteriologist, P. B. B. H.*

ZOLLINGER, ROBERT
B.S., Ohio State Univ., 1924; M.D., *ibid.,* 1927; H. O., Inst. for Feeble Minded, Columbus, Ohio, 1925-27; *Surg. H. O., P. B. B. H., Jan. 1, 1928-May 1, 1929;* Asst. Res. Surg., Lakeside Hosp., July, 1931-June, 1932; Res. Surg., *ibid.,* June-Sept., 1932; Demonstr. in Surg., Western Reserve Univ., July, 1931-Sept., 1932; Instr. in Surg., Harv.; *Res. Surg., P. B. B. H.*

Register of Former Members of the Staff

Adams, Frank Dennette

Litt.B., Princeton, 1913; M.D., Harv., 1917; Med. H. O., M. G. H., 1917-18; 1st Lieut., M. C., U. S. Army, 1918-19; *Pathol. H. O., P. B. B. H., Oct. 1, 1919-March 15, 1920; Act. Res. Pathol., ibid., March 15-July 1, 1920;* Res. Phys., B. C. H., 1920-22; Lect. in Med., Univ. of N. C., Extension Div., 1922 and 1923; H. O., So. Dept., B. C. H., 1922; Assoc. in Therapeutics, George Washington Univ.; Instr. in Med., Georgetown Univ., 1923; Assoc. Phys., M. G. H.; Asst. in Med., Harv., 1923-29; Instr. in Med., Harv.; in practice, Boston.

Alexander, Harry Louis

A.B., Williams, 1910; M.D., Columbia, 1914; H. O., Presbyterian Hosp., New York, 1914-16; *Asst. Res. Phys., P. B. B. H., Sept. 15, 1916-July 6, 1917;* Major, M. C., U. S. Army; Instr. in Med., Cornell, 1919-24; Asst. Adjunct Attend. Phys., 2nd Med. Div., Bellevue Hosp., New York, 1919-24; Attend. Phys. and Visit. Pathol., Overlook Hosp., Summit, New Jersey, 1920-24; Chief of Asthma Dept., Cornell Pay Clin., New York, 1921-24; Editor, Journal of Allergy; Assoc. Prof. Med., Washington Univ., and Assoc. Phys., Barnes Hosp., and St. Louis Maternity Hosp., St. Louis.

Alt, Howard L.

B.S., Northwestern Univ., 1923; M.D., *ibid.*, 1924; H. O. in med. and surg., *ibid.*, July, 1923-July, 1925; *Asst. Res. Phys., P. B. B. H., July 1, 1925-Sept. 1, 1927;* Teaching Fellow in Med., Harv.; *Res. Phys., P. B. B. H., Sept. 1, 1927-Sept. 1, 1929;* Asst. in Kaiser Wilhelm Inst. für Biologie, Berlin, Prof. Warburg, Oct., 1929-April, 1930; Asst. in Med. Clin., Univ. of Würburz, Prof. Grafe, May-Aug., 1930; Assoc. in Med. and Instr. in Chemistry, Northwestern Univ. Med. Sch., and Passavant Mem. Hosp., Chicago.

Altnow, Hugo Oskar

M.D., Univ. of Mich., 1907; Interne and Asst. Surg., Northern Pac. Ry. Hosp., Brainerd, Minnesota, 1907-09; Surg., Northern Pac. Ry., and Private Practice, Mandan, North Dakota, 1909-24; Visit. Phys., Mandan Deaconess Hosp., 1919-24; Grad. Asst. in Neurol., O. P. D., M. G. H., May 1-July 1, 1924; *Jr. Assoc. in Med., P. B. B. H., July 11, 1924-July 1, 1925;* in practice, Minneapolis, Minnesota.

Armstrong, Wilber P.

A.B., Univ. of Ill., 1920; M.D., Harv., 1923; Interne, Fifth Ave. Hosp., New York; *Surg. H. O., P. B. B. H., Jan. 6-July 1, 1925;* in practice, Springfield, Illinois.

Atwater, Reginald Myers

A.B., Colorado Coll., 1914; M.D., Harv., 1918; C.P.H., Johns Hopkins, 1920; Dr. P.H., *ibid.*, 1921; *Med. H. O., P. B. B. H., March*

1, 1918-April 15, 1919; Dept. of Hygiene, Hunan-Yale College of Med., Changsha, Hunan, China, 1921-25; Inst. Epidemiology, Harv. Sch. Public Health, 1925-27; Comm. of Health, Cattaraugus Co. Dept. of Health, Olean, New York.

Bagley, Jr., Charles

M.D., Univ. of Md., 1904; A.B., Loyola, 1911; Asst. Res. Phys., Univ. Hosp., Baltimore, 1904-05; Asst. Res. Surg., *ibid.*, 1905-06; Med. Supt., Hebrew Hosp., Baltimore, 1906-10; *Asst. Res. Surg., P. B. B. H., Jan. 1, 1913-Jan. 1, 1914;* Major, M. C., U. S. Army, 1917-19; Visit. Surg. Sinai Hosp., Church Home and Infirm., St. Agnes' Hosp., Bon Secours Hosp.; W. Baltimore Gen. Hosp., Maryland Gen. Hosp., and Union Mem. Hosp., Baltimore; Consult. Surg., Baltimore Eye, Ear and Throat Charity Hosp., etc.; Assoc in Exper. Neurol., Johns Hopkins; Asst. Psychiatrist, J. H. H., Baltimore; Consult. Neuro-Surgeon, U. S. P. H. S.; in practice, Baltimore.

Bailey, Percival

B.S., Univ. of Chicago, 1914; Ph.D., *ibid.*, 1918; M.D., Northwestern Univ., 1918; Asst. in Embryology, Univ. of Chicago, 1914; Asst. in Anatomy, *ibid.*, 1914-15; Asst. in Anatomy, Northwestern Univ., 1915-17; Assoc. in Anat., Univ. of Chicago, 1917-18; Surg. H. O., Mercy Hosp., Chicago, 1918-19; *Asst. Res. Surg., P. B. B. H., April 1-Dec. 19, 1919;* Res. Phys., Neurol. Service, Cook County Hosp., Chicago, 1920; Res. Phys., Psychopathic Hosp., Chicago, 1920; Arthur Tracy Cabot Fellow, Harv., 1920-21; *Assoc. in Surg., P. B. B. H., Sept. 1, 1920-July 1, 1921;* Asst. Etranger à la Salpêtrière, service du Prof. Pierre Marie, 1921-22; *Jr. Assoc. in Surg., P. B. B. H., July, 1922-Sept., 1923;* Asst. Etranger à l'hospice Sainte Anne, service du Prof. Henri Claude, 1925-26; Instr. in Surg., Harv.; *Assoc. in Surg., P. B. B. H., 1926-28;* Prof. Surg., Univ. of Chicago.

Baldwin, Louis B.

Litt. B., Princeton, 1915; M.D., Columbia, 1919; Interne, Presbyterian Hosp., New York, April, 1919-July, 1920; Interne, Sloane Hosp., New York, Sept., 1920-Dec., 1920; Assoc. in Med., Presbyterian Hosp., New York, Jan., 1921-July, 1921; *Asst. Res. Phys. (acting) P. B. B. H., Dec. 20, 1921-Feb. 1, 1922;* Asst. Prof. and Instr. in Med., Strong Mem. Hosp., Rochester, N. Y.; Phys., Rochester Gen. Hosp., Rochester, N. Y.; Grunow Clin., Phoenix, Ariz.

Balyeat, Ray Morton

A.B., Oklahoma Univ., 1912; B.S., *ibid.*, 1915; M.A., *ibid.*, 1916; M.D., *ibid.*, 1918; *Med. H. O., P. B. B. H., Nov. 1, 1916-Oct. 1, 1919;* Instr. in Med. and Allergy, Univ. of Oklahoma Med. School; Consult. Phys., St. Anthony's Hosp. and State Univ. Hosp., Oklahoma City; in practice, Oklahoma City, Oklahoma.

Barker, M. Herbert

B.S., Univ. of Chicago, 1923; M.S., Northwestern Univ., 1930; M.D., Rush Med. College, 1925; H. O., Wesley Memorial Hosp., 1925-27; *Med. H. O., P. B. B. H., Jan. 1-March 1, 1927; Asst. Res. Phys., ibid., July 1, 1927-July 1, 1929;* Res. Phys., Passavant Mem. Hosp., Chicago; Consult. in Cardio-Renal Diseases, Hines Mem. Hosp.; Director, Renal Clin., Northwestern Univ. Med. Clin.; Assoc. in Med., Northwestern Univ.

Barr, Joseph Seaton

B.S., College of Wooster, Wooster, Ohio, 1922; M.D., Harv., 1926; Stud. H. O., Huntington Mem. Hosp., 1924-25; *Surg. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927;* P. G. course, Orth. Surg., Children's Hosp. and M. G. H., Jan., 1928-Sept., 1929; Asst. Orthopedic Surg., M. G. H.; Asst. Surg., N. E. Peabody Home for Crippled Children; Asst. in Orthopedic Surg., Harv.

Barrow, William Hulbert

A.B., Harv., 1908; M.D., *ibid.,* 1916; *Med. H. O., P. B. B. H., Nov. 1, 1916-June 17, 1917;* Lieut. and Capt., M. C., U. S. Army, 1917-21; Med. Advisor, Middlesex School, Concord, Massachusetts, 1921-22; Med. Advisor and Prof. of Phys. Education, Stanford Univ., 1922-27; Asst. Clin. Prof. Med., *ibid.,* 1926-27; Assoc. Clin. Prof. Med., *ibid.,* 1927-28; Staff member, Mercy and Scripps Memorial Hospitals; Member, Visiting and Consult. Staff, San Diego Co. Hosp.; in practice, San Diego, Calif.

Beck, Claude S.

A.B., Franklin and Marshall College, 1916; Grad. Sch., Univ. of Pittsburgh, 1916-17; M.D., Johns Hopkins, 1921; Res. H. O., J. H. H., 1921-22; Asst. Res. Surg., New Haven Hosp., 1922-23; Arthur Tracy Cabot Fellow, Harv., and *Assoc. in Surg., P. B. B. H., 1923-24;* in charge Surg. Lab., Western Reserve Univ., Cleveland, Ohio, 1924-25; Instr. in Surg., Western Reserve Med. School; Res. Surg., Lakeside Hosp., Cleveland, 1925-26; *Asst. Res. Surg., P. B. B. H., April 9-June, 1927;* Instr. in Surg., Western Reserve Univ. School of Med.; Asst. Surg., Lakeside Hosp., 1927-28; Assoc. Surg., *ibid.;* Asst. Prof. Surg., Western Reserve Univ. Sch. of Med.

Belt, A. Elmer

M.D., Univ. of Cal., 1920; Fellow, Hooper Research Laboratories, *ibid.;* Asst. in Urol. Surg., Univ. Hosp., for a year; *Asst. Res. Surg., P. B. B. H., July 1, 1922-July 1, 1923;* in practice, Los Angeles.

Benet, George

Student for 3 yrs., Univ. of S. C., and Univ. of Va.; M. D., Harv., 1913; *Med. H. O., P. B. B. H., June 1, 1913-July 1, 1914;* Sr. Surg. H. O., St. Luke's Hosp., Chicago, July 1, 1914-Jan. 1, 1915; Lab. Asst., Harv. Unit, Am. Ambulance Hosp., Paris, France, 1915;

Surg. at French Hosp. near Annel, 1915-16; Capt. and Asst. Surg., 2nd Harv. Unit, B. E. F., France, 1916; Res. Phys., Collis P. Huntington Mem. Hosp., 1916-17; Surg., Fulham Military Hosp., London, England, 1917; M. R. C., U. S. Army, 1917-18; Capt., M. C., U. S. Army; Battalion Med. Officer to 16th Devons Infantry Reg., (British) 1918; Awarded British Military Cross, 1918; Asst. Visit. Surg., Richland Co. Hosp.; Chief Surg., South Carolina State Hosp.; Attend. Surg., Newberry Co. Hosp.; Assoc. Staff, Marlboro Co. Hosp.; in practice, Columbia, S. C.

Bennett, Granville A.
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Benton, Roy Wilmot
Ph.B., Brown Univ., 1918; M.D., Harv., 1922; *Med. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924;* H. O., New York Nursery and Child's Hosp., 1924-25; H. O., Providence City Hosp., 1925; Resident Phys., *ibid.,* 1925-26; Asst. Supt., *ibid.,* 1926-28; Asst. Director, A. O. Smith Diag. Clin., Milwaukee, Wis., 1928-32; Health Commissioner, Village of Shorewood, Wis.; in practice, Milwaukee, Wis.

Berglund, Hilding
M.D., Univ. of Stockholm, 1916; S.D., *ibid.,* 1920; Asst. Phys., Stockholm Hosp., 1915-19; Asst. Prof. Int. Med., Univ. of Stockholm, 1920; *Asst. Res. Phys., P. B. B. H., July 5, 1921-Sept. 1, 1923;* Asst. Prof. Medicine, Harv.; *Assoc. in Med., P. B. B. H., Sept. 1, 1923-Nov. 1, 1925;* Prof. of Med., Univ. of Minn., and Chief, Dept. of Med., Univ. Hosp., 1925-32; in practice, Stockholm, Sweden.

Berry, Frank Brown
A.B., Harv., 1914; M.D., *ibid.,* 1917; Pathol. H. O., B. C. H., July-Dec., 1917; *Med. H. O., P. B. B. H., Jan. 9-March 1, 1918;* 1st Lieut. and Capt., M. C., U. S. Army, 1918-19; 1st Asst. Pathol., B. C. H., 1919-20; Surg. H. O., Presbyterian Hosp., New York, 1920-21; Practicing Med., Providence, Rhode Island, 1921-23; Res. Surg., Bellevue Hosp., New York, 1923-24; Assoc. in Surg., Columbia; Adjunct Attend. Surg., Bellevue Hosp.; Consult. Surg., Nyack Hosp.; in practice, New York City.

Bird, Clarence Edward
A.B., Univ. of Cal., 1920; M.D., Harv., 1923; Interne, Indian Harbor Hosp., Labrador, with Grenfell Mission, 1922; *Surg. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924;* Asst. in Surg. and Pathol., Yale, 1924-25; *Asst. Res. Surg., P. B. B. H., July 1, 1925-Oct. 1, 1926; Res. Surg., ibid., Oct. 1, 1926-Sept. 12, 1928;* Prof. of Surg., Univ. of Louisville; Surgeon-in-chief, Louisville City Hosp.

Blain, Daniel
B.A., Wash. and Lee Univ., 1921; M.D., Vanderbilt, 1929; *Med. H. O., P. B. B. H., Nov. 1, 1929-March 1, 1931;* Fellow in Psychiatry, Austen Riggs Foundation, Stockbridge, Mass., 1931-32; in practice, New York City.

Blake, Francis Gilman
A.B., Dart., 1908; M.D., Harv., 1913; *Med. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914; Asst. Res. Phys., ibid., Nov. 1, 1914-Sept. 1, 1915; Res. Phys., ibid., Sept. 1, 1915-Oct. 1, 1916;* Moseley Travelling Fellow (Harv.), 1916-17; Asst., Rockefeller Inst. Hosp., 1916-17; Asst. Prof. of Med., Univ. of Minn., 1917-19; Visit. Phys., Elliott Mem. Hosp., Univ. of Minn., 1917-19 (leave of absence Feb. 11, 1918-July 1, 1919); Assoc. in Med., Rockefeller Inst. Hosp., 1919-20; Assoc. Mem. in Med., Rockefeller Inst. Hosp., 1920-21; Mem., Board Scientific Directors, Rockefeller Inst. for Med. Research; Sterling Prof. of Med., Yale Univ., School of Med.; Phys.-in-Chief, New Haven Hosp., New Haven, Connecticut.

Blosser, Harold L.
A.B., Grinnell Coll., Grinnell, Iowa; M.D., Harv., 1925; *Pathol. H. O., P. B. B. H., Jan. 1, 1925-Jan. 1, 1926;* Grad. Asst. Roent., M. G. H., 1926; Surg. H. O., Lakeside Hosp., 1926-27; Asst. Res. Surg., *ibid.,* 1927-29; in practice, Portland, Ore.

Blumgart, Herrmann
B.S., Harv., 1917; M.D., *ibid.,* 1921; *Med. H. O., P. B. B. H., July 1, 1921-Nov. 1, 1922;* Moseley Traveling Fellow, Harv., 1923; Asst., Thorndike Mem. Lab., B. C. H., 1924-28; Asst. in Med., Harv., 1924-27; Faculty Instr., *ibid.,* 1927-28; Asst. Prof. of Med., *ibid.;* 1928-29; Assoc. Prof. of Med., *ibid.;* Visit. Phys., Beth Israel Hosp.; Director, Med. Research, *ibid.*

Boehm, Julius Benjamin
B.S., St. Louis Univ., 1910; M.D., Johns Hopkins, 1914; *Surg. H. O., P. B. B. H., Nov. 1, 1914-Nov. 1, 1915;* Res. Surg., Greenpoint Hosp., Brooklyn, New York, 1915-18; Surg. Serv., Walter Reed Hosp.; in practice, Brooklyn, New York.

Boggs, Arthur Gordon
A.B., Dart., 1915; M.D., Harv., 1919; *Surg. H. O., P. B. B. H., March 15, 1919-July 1, 1920;* New Haven Hosp., New Haven, Connecticut; Med. Missionary, Clough Mem. Hosp., Ongole, South India.

Booth, George
B.S., Allegheny Coll., 1922; M.D., Harv., 1926; *Med. H. O., P. B B. H., March 1, 1927-July 1, 1928;* in practice, Pittsburgh, Pa.

Boothby, Walter Meredith
A.B., Harv., 1902; M.D., *ibid.,* 1906; A.M., *ibid.,* 1907; European clinics for 8 mos., 1907-08; Surg. H. O., B. C. H., 1908-09; Asst.

in Anat., Harv., 1910-14; Asst. in Anesthesia, Harv. Grad. School of Med., 1912-13; Sheldon Travelling Fellow, Harv. (Oxford Univ., largely); Anesthetist, B. C. H., 1912; *Supervisor of Anesthesia, P. B. B. H., Dec. 11, 1913-Nov. 14, 1916;* Lect. on Anesthesia and Instr. in Anat., Harv., 1914-16; Capt. and Major, M. C., U. S. Army, 1917-19; Assoc. Prof. of Med., Mayo Foundation, Univ. of Minn.; Head of Sect. of Clin. Metabolism, Mayo Clinic, Rochester, Minn.

Bowen, Joseph Andrew
M.D., Univ. of Cincinnati, 1925; Interne, Cinn. Gen. Hosp., 1925-26; Fellow in Surg., Cleveland Clin., 1926-28; *Asst. Res. Surg., P. B. B. H., July 15, 1928-July 15, 1929;* in practice, Louisville, Ky.

Bowie, Morris A.
A.B., Univ. of Col., 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930.*

Boyd, Douglas
Univ. of Ga.; M.D., Harv., 1922; H. O., Robert Brigham Hosp., Boston, 1921-22; Asst. Res. Phys., Boston Sanatorium, 1922-23; *Surg. H. O., P. B. B. H., March 1, 1923-July 1, 1924; Act. Asst. Res. Surg., ibid., July 1-Aug. 1, 1924;* Asst. in Med., Rockefeller Inst., 1924-25; Asst. Res. Phys., Hosp. of Rockefeller Inst.; Asst. Res. Surg., Lakeside Hosp., 1925-26; Res. Orthopedic Surg., Rainbow Hosp., Cleveland, Ohio, 1926; Clin. Asst. in Med., Northwestern Univ. Med Sch.; in practice, Highland Park and Chicago, Ill.

Boyd, Walter Willard
E.E., Univ. of Va., 1920; M.S., M. I. T., 1922; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., Oct. 1, 1928-Feb. 1, 1930;* House Phys., B. L. I., 1930-31; *Asst. Res. Surg., P. B. B. H., April 1, 1931-Jan. 15, 1932;* Asst. Res., Boston Lying-In Hosp., 1932-33; Resident, *ibid.*

Boyden, Horace Mayo
A.B., Univ. of Oregon, 1927; M.D., Univ. of Mich., 1930; *Med. H. O., P. B. B. H., Nov. 1, 1930-Feb. 3, 1931. Died Feb. 3, 1931.*

Boyes, Joseph H.
A.B., Stanford, 1926; M.D., *ibid.,* 1930; H. O., Pathol., M. G. H., July, 1929-June, 1930; *Surg. H. O., P. B. B. H., July 1, 1930-November 1, 1931;* Res. Surg., Stanford Univ. Med. Sch. Hosps., San Francisco, 1931-32; Asst. in Surg., Stanford Univ. Sch. of Med.

Bradley, John I.
A.B., Georgetown Univ., 1920; M.D., Harv., 1925; Pathol. Interne, B. C. H., 1925; *Surg. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927;* Asst. Pathol., M. G. H.

Brewster, Albert H.
B.A., Univ. of Va., 1914; M.D., J. H. M. S., 1918; M. C., U. S. Army, 1917-19; Children's Hosp. Sch., Baltimore, Maryland, 1919-

20; *Surg. H. O., P. B. B. H., Feb. 15, 1920-July 1, 1921;* Orthopedic Service, Children's Hosp., Boston; Instr., Orthopedic Surg., Harv.; Visit. Orth. Surg., N. E. Peabody Home for Crippled Children, and Industrial School for Crippled and Deformed Children; in practice, Boston.

BRIGHAM, FERDINAND
A.B., Tufts Coll., 1912; D.M.D., H.D.S., 1915; *Dental Surg., P. B. B. H., March 13, 1919-Jan. 20, 1920;* Capt., R. A. M. C., 1915-19; Degree, Dental Surg., Fac. of Med., Paris; in practice, 95 Ave. des Champs Elysees, Paris.

BRIGHAM, ROBERT B.
A.B., Williams, 1924; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., Oct. 1, 1928-June 1, 1929 (resigned)*; H. O., Good Samaritan Hosp., Portland, Ore., July, 1929-July, 1930; in practice, Northampton, Mass.

BRILL, SELLING
A.B., Stanford, 1920; M.A., *ibid.,* 1922; M.D., Harv., 1924; *Surg. H. O., P. B. B. H., Nov. 1, 1924-March 1, 1926;* Hunter Fellow in Surg., Univ. Hosp., Philadelphia, Pennsylvania; Asst. in Surg., Univ. of Calif.; *Died Jan. 23, 1932.*

BRITTINGHAM, HAROLD HIXON
A.B., Yale, 1916; M.D., Harv., 1920; *Med. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921; Asst. Res. Phys., ibid., Nov. 15-Dec. 6, 1921;* Demonstr. Physiol., Western Reserve Univ., 1922-23; Demonstr. in Med., *ibid.;* Asst. Visit. Phys., Cleveland City Hosp., 1923-30; Visit. Phys., *ibid.;* in practice, Cleveland, Ohio.

BROWN, CHARLES LEONARD
B.S., Univ. of Oklahoma, 1919; M.D., *ibid.,* 1921; *Med. H. O., P. B. B. H., March 1, 1922-July 1, 1923;* Res. Pathol., Children's Hosp., 1923-24; Instr. in Pathol., Harv.; *Res. Pathol., P. B. B. H., July 1, 1924-Sept. 1, 1925;* Teaching Fellow in Med., Harv.; *Res. Phys., P. B. B. H., Sept. 1, 1925-Sept. 1, 1927;* Instr. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H., Sept., 1927-July, 1928;* Asst. Prof. Int. Med., Univ. of Mich., July, 1928-July, 1929; Assoc. Prof. Int. Med., *ibid.*

BROWN, WILLIAM EUSTIS
Ph.B., Lafayette Coll., 1909; C.P.H., Harv.-M. I. T., Sch. of Public Health, 1915; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., Oct. 15, 1920-Feb. 20, 1922;* Surg.-in-Chief, N. J. Zinc Co. Hosp., Franklin, New Jersey, 1922-24; Asst. Prof. Preventive Med., Univ. of Cinn., 1924-26; Assoc. Prof. Preventive Med., *ibid.*

BRYANT, JOHN
A.B., Harv., 1903; Asst. Res. Surg., Free Hosp. for Women, Brookline, 1905-06; M.D., Harv., 1907; Instr. in Pathol. and Neuropathol., *ibid.,* 1907-08; Surg. House Pupil, M. G. H., 1908-10; Private Asst. to Dr. S. J. Mixter, 1910-12; Research in Europe,

1912, 1913, and 1914; Asst. in Anat., Harv., 1913-18; Grad. Asst., M. G. H., O. P. D., 1915-16; Asst. to Phys.-in-Chief, Robert B. Brigham Hosp., 1915-16; *Vol. Asst., P. B. B. H., July, 1916-Jan., 1917; Assoc. in Med., ibid., Jan. 1, 1917-Jan. 1, 1918;* Major, M. C., U. S. Army, 1917-19; Secretary, American Gastro-Enterological Assn., 1923-27; Medical Asst. in Problems of Convalescence, M. G. H.; Consultant to Burke Foundation for Convalescents, New York; in practice, Boston.

Buck, Robert William

A.B., Butler Coll., 1914; A.M., Columbia, 1915; M.D., Harv., 1921; Asst. Res., Boston Hosp. for Consumptives, 1921; *Med. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923;* H. O., Boston Lying-In Hosp., 1923; Physician, Med. Dept., Boston Disp.; Asst. Prof. Prev. Med., Tufts Medical School; in practice, Boston.

Buckley Richard Cotter

B.S., Trinity, 1919; M.D., Yale, 1924; Res. Pathol., New Haven Hosp., 1924-27; Instr. in Pathol., Yale Medical School, 1924-27; *Surg. H. O., P. B. B. H., June 15, 1927-Nov. 1, 1928; Jr. Assoc. in Surg., ibid., Nov. 1, 1928-Nov. 1, 1929; Asst. Res. Surg., ibid., Nov. 1, 1929-April 1, 1930;* Asst. Surg., St. Francis Hosp., Hartford, Connecticut; in practice, Hartford, Connecticut.

Buhrmester, Jr., Harry C.

M.D., Harv., 1930; H. O., Church Home and Infirmary, Baltimore, Maryland, 1930-31; *Med. H. O., P. B. B. H., Feb. 15, 1931-Nov. 1, 1931;* in practice, Boston.

Burlingham, Louis Herbert

A.B., Yale, 1902; M.D., Johns Hopkins, 1906; House Pupil, M. G. H., 1906-07; Asst. Res. Phys., *ibid.,* 1907-12; Asst. Adm., *ibid.,* 1912; *First Asst. Supt., P. B. B. H., Oct. 19, 1912-April 30, 1917; Curator, ibid., May 8, 1913-May 10, 1917;* Lect. on Hosp. Adm., Washington Univ. Med. Sch.; Assoc. Editor, Modern Hosp.; Supt., Barnes Hosp., St. Louis, Missouri; Administrator, St. Louis Children's Hosp., 1917-25; Mem., Med. Council to U. S. Vet. Bureau; Pres., Mo. Hosp. Assoc., 1921-22; Trustee, Mid-West Hosp. Assoc.; Director, Central Bureau for Homeless Men, St. Louis; Trustee, A. H. A., 1919-21; President, A. H. A., 1928-29.

Butler, Stuyvesant

Ph.B., Yale, 1924; M.D., Univ. of Chicago, 1928; Interne, Presbyterian Hosp., Chicago, Ill.; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1929-May 1, 1930;* in practice, Clinic of Dr. Ralph C. Brown, Chicago.

Cadbury, William Warder

A.B., Haverford, 1898; A.M., *ibid.,* 1899; M.D., Univ. of Pa., 1902; Res. Phys., Pa. Hosp., 1903-05; Stud. in Vienna, 1905; Grad., London Sch. of Hygiene and Trop. Med., 1928; Instr. in Pathol. and Pharmacodynamics, Univ. of Pa., 1906-07; Pathol., St.

Mary's Hosp., Philadelphia, 1906-07; Pathol., Henry Phipps Inst. for the Study, Treatment and Prevention of Tuberculosis, 1908-09; Visit. Phys., Free Hosp. for Poor Consumptives, White Haven, Pennsylvania, 1908-09; *Asst. Res. Phys., P. B. B. H., Nov. 1, 1915-March 1, 1916;* College Phys., Lingnan Univ., Canton, China; Supt. and Internist, Canton Hosp., Canton, China.

Cairns, Hugh William Bell
M.B., B.S., Univ. of Adelaide, 1917; Rhodes Scholar, Oxford, 1919-20; F.R.C.S., England, 1921; War service, 1915-18; House Surg., Radcliffe Infirmary, Oxford, 1920-21; House Surg., London Hosp., 1921; Pathol. Asst., *ibid.,* 1921-22; House Phys., *ibid.,* 1922; Asst. in Surg. Unit, London Hosp., 1923; Surg. First Asst., *ibid.,* 1924-25; Asst. Surg., *ibid.,* 1926; Hunterian Prof., R. C. S., 1925-26; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1926-Sept. 15, 1927;* Asst. Surg., London Hosp., London, England; *Asst. Res. Surg., P. B. B. H., Sept. 5-Sept. 19, 1930.*

Calhoun, Abner W.
A.B., Univ. of Ga., 1918; M.D., Harv., 1923; 2 mos. in tuberculosis work, Ray Brook, New York; Med. H. O., B. C. H., March 1, 1924-Nov. 15, 1925; *Asst. Res. Phys., P. B. B. H., Nov. 15, 1925-Sept. 1, 1927;* Chief Res., Grady Hosp., Atlanta, Ga., 1927-28; Assoc. in Med., Emory Univ.; Phys. in Charge, J. J. Gray Clin.; in practice, Atlanta, Ga.

Carr, Gladys Lydia
M.D., Tufts, 1906; H. O., N. E. Hosp. for Women and Children, 1906-07; Asst. on Maternity Staff, *ibid.,* 1907-08; Gen. Practice, Boston, 1907-08; Private Practice, Lynn, 1908-14; Head of Roent. and Electrotherapeutic Depts., N. E. Hosp. for Women and Children; *Roentgenologist, pro tempore, P. B. B. H., June 1, 1914-Feb. 1, 1916; Roentgenologist, ibid., Feb. 1, 1916-Oct. 31, 1917;* Roentgenologist, American Comm. for Relief in the Near East, Asia Minor; Roentgenologist, Finley Hosp., Dubuque, Iowa.

Carter, Jr., David Wendel
A.B., Southwestern Univ., 1909; A.M., *ibid.,* 1910; M.D., Johns Hopkins, 1914; H. O., Clifton Springs Sanitarium, 1914; *Med. H. O., P. B. B. H., Jan. 4, 1915-July 1, 1916;* Asst. Res. Phys., J. H. H., 1916-17; Res. Phys. in charge of Private Wards, *ibid.,* 1917-18; 1st Lieut., M. C., U. S. Army, 1917-19; Visit. Phys., Parkland Hosp., Dallas; Assoc. Prof. of Med., Baylor Univ., Dallas; Mem. Staff, Baylor Hosp.; Chairman, Med. Advisory Comm., Dallas Methodist Hosp.; in practice, Dallas, Texas.

Carty, John Russell
B.S., Princeton, 1917; M.D., Cornell, 1921; House Phys., New York Hosp., 1921-23; *X-ray H. O., P. B. B. H., July 1, 1923-July 1, 1924;* Asst., Dept. of Radiology, M. G. H., April-Oct., 1925; Chief of Clin. in Roent., Cornell Univ. Med. Sch. Clin., New York; Assoc. Prof. Roent., *ibid.;* Radiologist in Chief, New York Hosp.

CASHMAN, CHARLES J.
D.M.D., Harv., 1928; *Dental Interne, P. B. B. H., Oct. 1, 1930-Aug. 1, 1931;* Asst. Instr. in Extraction and Anesthesia, Harv.; Grad. Asst., Dental Clin., M. G. H.; in practice, East Boston, Mass.

CASTLE, EDWARD B.
B.S., Univ. of Mich., 1927; M.D., *ibid.,* 1929; *Surg. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930;* Asst. Res. in Surg. and Acting Res. Surg., Vanderbilt Univ. Hosp., Nashville, Tenn.; 1930-31; in practice, Cleveland, Ohio.

CHASE, HENRY MELVILLE
S.B., Dart., 1897; M.D., Harv., 1901; House Pupil, M. G. H., 1901-02; Asst. Surg., Boston Disp., 1906-14; Surg., Boston Disp.; Surg., Berkeley Infirmary; *Assoc. in Surg., P. B. B. H., Nov. 17, 1914-July 11, 1919;* in practice, Boston.

CHELEY, GLEN EVAN
A.B., Colorado Coll., 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921;* H. O., Boston Lying-In Hosp., 1921-22; Instr. in Surg., Colorado Med. Sch.; Surg. to Out-Patients, Colorado Gen. Hosp.; in practice, Denver, Colorado.

CHRISTIAN, JR., THOMAS D.
M.D., Harv., 1923; Med. H. O., B. C. H.; *Asst. Res. Phys., P. B. B. H., Jan. 1, 1925-Nov. 15, 1925; Jr. Assoc. in Med., ibid., Nov. 15, 1925-Oct. 1, 1926;* in practice, Greensboro, North Carolina. *Died January 12, 1929.*

CLARK, JR., BURTON
B.S., Univ. of Wis., 1921; M.D., Harv., 1923; Interne, St. Luke's Hosp., Chicago, July 1, 1923-April 1, 1925; *Surg. H. O., P. B. B. H., May 1-Nov. 1, 1925;* Pathol. H. O., B. C. H., Nov. 1, 1925-Jan. 1, 1926; in practice, Oshkosh, Wisconsin, 1926-31; Asst. Res. Surg., Lakeside Hosp.

COBB, STANLEY
A.B., Harv., 1910; M.D., *ibid.,* 1914; *Surg. H. O., P. B. B. H., July 1, 1914-July 1, 1915;* Vol., Lab. of Physiol. Research, Johns Hopkins, 1915-16; Asst. in Physiol., *ibid.;* Asst. in Psychiatry, *ibid.,* 1916-17; Asst. in Psychiatry and Physiol. of the Nervous System, *ibid.;* Asst. Psychiatrist, *ibid.,* 1917-18; Assoc. in Psychiatry, *ibid.* (on leave of absence); 1st Lieut., M. C., U. S. Army, 1917-19; Asst. Neurol., M. G. H., 1919-20; Dalton Scholar, *ibid.;* Instr. in Neurol. and Physiol., Harv., 1919-23; Asst. Neurol., M. G. H.; Asst. Prof. of Neuropathol., Harv., 1923; Rockefeller Fellow in Europe, 1923-25; Visit. Phys. for Neurol., B. C. H.; Assoc. Prof. Neuropathol., Harv., 1926; Bullard Prof. Neuropathol., *ibid.;* Director, Neurol. Labs., B. C. H.

Cochran, H. Walton
B.A., Univ. of Texas, 1924; M.D., Johns Hopkins, 1928; *Surg. H. O., P. B. B. H., Jan. 1, 1929-May 1, 1930;* Jr. Fellow in Surg., Presbyterian Hosp., New York; Fellow in Surg., *ibid.;* Instr. in Surg., College of Phys. and Surg., N. Y.

Colby, Fletcher H.
S.B., Dartmouth, 1914; M.D., Harv., 1918; served with B. C. H. unit, Evacuation Hosp. No. 110, during war; Surg. Interne, M. G. H., 1919-21; Ludlow-Jute Co., Ltd., Calcutta, India, 1921-23; *Asst. Res. Surg., P. B. B. H., Jan. 1, 1924-Jan. 1, 1925; Jr. Assoc. in Urol., ibid., Jan. 22, 1925-Oct. 1, 1926; Act. Assoc. in Surg., ibid., July-Sept., 1927;* Assoc. Urologist, M. G. H.; Asst. in G. U. Surg., Harv.; Asst. Surg., Palmer Mem. Hosp.; Asst. Surg., Huntington Mem. Hosp.; in practice, Boston.

Connor, Charles Lloyd
Univ. Pittsburgh, 1913-17; M.D., Baylor Univ., Coll. of Med., 1920; Interne, St. Joseph's Hosp., Pittsburgh, 1920-21; Gen. Practice, Montana, 1921-22; Fellow in Med., Nat. Research Council, 1922-25; Research Fellow, Pathol., Harv., 1923-25; Instr. in Pathol., *ibid.*, 1925; Faculty Instr., *ibid.*, 1926-28; *Res. Pathol., P. B. B. H., Sept. 1, 1925-Sept. 1, 1926;* Acting Director, Pathological Laboratories, Montreal General Hosp. (leave of absence from Harvard, 1926-27); Assoc. Prof. Pathol. and Ex. Head, Dept. of Pathol., Univ. of Calif. Med. Sch.; Prof. Pathol., *ibid.*

Cook, Ward Hance
A.B., Univ. of Kans., 1909; A.M., *ibid.*, 1910; Fellow in Zoölogy, *ibid.*, 1909-10; Instr. in Embryology and Histology, *ibid.*, 1910; M.D., Harv., 1914; *Med. H. O., P. B. B. H., July 1, 1914-July 10, 1915;* 2nd Asst. in Pathol., B. C. H., 1915-16; 1st Asst. in Pathol., *ibid.*, 1916-17; Pathol., Long Island Hosp., Boston, 1917-21; Instr. in Pathol., Harv., 1917-21; Prof. of Pathol., Med. Coll. of Va., Richmond, Virginia, 1921-24; Assoc. Director, Wm. H. Singer Mem. Research Lab., Pittsburgh, Pennsylvania, 1925-26; Pathol., N. Y. Post Grad. Med. School and Hosp., 1926-28; Director, Bureau of Labs., Dept. of Health, Yonkers, N. Y.; Pathol., St. John's Riverside, Yonkers General, and St. Joseph's Hospitals, Yonkers, New York.

Coulter, A. Barklie
A.B., Catholic Univ. of America, 1918; M.D., Johns Hopkins, 1924; Asst., Trudeau Sanatorium, Saranac, 1924-25; Res. H. O., Royal Victoria Hosp., Montreal, 1925-26; *Jr. Assoc. in Med., P. B. B. H., Oct. 1, 1926-Sept. 1, 1927;* Head, Dept. of Med., Gallinger Municipal Hosp., Washington, D. C., 1930-31; in practice, Washington, D. C.

Councilman, William Thomas
M.D., Univ. of Md., 1878; Stud., Univs. of Vienna and Leipzig; Hon. A.M., Harv., 1899; Hon. A.M., Johns Hopkins, 1902; LL.D.,

Univ. of Md., 1907; LL.D., McGill Univ., 1911; LL.D., Western Reserve Univ., 1929; LL.D., St. John's College, Annapolis, Md., 1932; Asst. Prof. in Anat., Johns Hopkins, 1890-91; Shattuck Prof. of Pathol. Anatomy, Harv., 1892; Emeritus Prof., *ibid.; Consult. Pathol., P. B. B. H., March 25, 1912-Aug. 14, 1913; Pathol., ibid., Aug. 14, 1913-Dec. 1, 1916 (granted leave of absence from Nov. 9-Dec. 1, 1916)*; Mem., Dr. Hamilton Rice's Expedition to South America; Fellow, Am. Acad., 1895; Mem., Nat. Acad. of Sciences, 1904; Fellow, Philosophical Society, Philadelphia, 1918. *Died, May 27, 1933.*

Crisler, Jr., Joseph Augustus
B.S., Univ. of Va., 1917; M.D., Harv., 1921; F.A.C.S.; *Surg. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923;* in practice, Memphis, Tenn.

Crockett, Eugene Anthony
Act. Consult. Otologist and Laryngologist, P. B. B. H., June 13, 1918-Dec. 31, 1919.

Crump, George Curtis
B.S., Dartmouth, 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., April 1, 1928-Aug. 1, 1929;* Asst. Res. Phys., Trudeau San., Saranac Lake, New York, 1929-31; Asst. Phys., Metropolitan Life Ins. Co. San.

Crutchfield, William G.
A.B., Univ. of Ky., 1923; M.D., Johns Hopkins, 1927; Surg. Interne, Women's Hosp., Baltimore, Md., 1927-28; *Surg. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929;* Res. in Neuro-Surg., Memorial Hosp., Richmond, Va.

Cunningham, Thomas Donald
B.S., Dart., 1913; M.D., Harv., 1918; House Pupil, M. G. H., 1917-18; *Asst. Res. Phys., P. B. B. H., March 1, 1919-July 1, 1920;* House Pupil, Children's Med. Serv., M. G. H., 1920-21; Mem., Med. Staff, Denver City and County Hosp., St. Joseph's Hosp., St. Luke's Hosp., and Children's Hosp., Denver, Colorado; Staff, Colorado Gen. Hosp.; Asst. Prof. Med., Univ. of Col.; in practice, Denver, Col.

Curtis, Robert Dudley
A.B., Harv., 1914; M.D., *ibid.,* 1918; *Med. H. O., P. B. B. H., July 1, 1918-July 1, 1919;* Pediatric H. O., M. G. H., 1918; Asst. Visit. Phys., *ibid.,* O. P. D., 1919; Med. Director, Boston Baby Hygiene Assoc.; Asst. in Pediatrics, Harv.; in practice, Boston.

Curtiss, Arthur Niles
A.B., Oberlin Coll., 1918; M.D., Syracuse Univ., 1923; Instr. in Physiol., Coll. of Med., Syracuse Univ., 1918-24; *Med. H. O., P. B. B. H., Nov. 1, 1924-March 1, 1926;* Asst. in Med. and Director of Students' Lab., Univ. Hosp., Syracuse, N. Y.; Instr. in Clin. Path.

and Clin. Med., *ibid.;* Attend., Gen. Hosp. of Syracuse; in practice, Syracuse, N. Y.

DAVIDOFF, LEO MAX
Two yrs. pre-med. work, Harv.; M.D., *ibid.,* 1922; Stud. Interne, Boston Psychopathic Hosp., April, 1921-June, 1922; Pediatric Serv., B. C. H., July-Nov., 1922; Med. Serv., New Haven Hosp., Nov. 1, 1922-Nov. 1, 1923; *Surg. H. O., P. B. B. H., March 1, 1924-June 20, 1925;* Surg., MacMillan Arctic Expedition, June 20, 1925-Oct. 1, 1925; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1925-Oct. 1, 1926; P. B. B. H. Travelling Fellowship, 1926-27;* Asst. Neuro-Pathol., Psychiatric Inst. of the State of New York, 1927-28; Attend. Neuro-Surg., Beth Israel Hosp., N. Y.; Assoc. Attend. Neuro-Surg., N. Y. Neurol. Inst.; Assoc. Neuro-Surg., Montefiore Hosp., N. Y.; Instr. in Neurol., Coll. of Phys. and Surg., Columbia Univ.; Asst. Attend. Surg., Div. of Neuro-Surg., Fifth Avenue Hosp.

DAVIDSON, LEONARD TOMB
A.B., Oberlin, 1912; M.D., Johns Hopkins, 1919; *Med. H. O., P. B. B. H., Sept. 15, 1919-Nov. 1, 1920;* Asst. Res. Phys., Presbyterian Hosp., New York, 1920-21; Res. Phys., St. Louis Children's Hosp., St., Louis, 1921-23; Assoc., Diseases of Children, Col. Physicians and Surgeons, New York; Asst. Attend. Phys., Babies' Hosp., N. Y.

DAVIS, LOYAL
M.D., Northwestern Univ., 1918; M.S., *ibid.,* 1921; Ph.D. in Surg., *ibid.,* 1923; Nat. Research Council Fellow, 1922-24; *Jr. Assoc. in Surg., P. B. B. H., March-Oct., 1924;* Assoc. Prof. Surg., Northwestern Univ. Med. Sch., 1925-32; Neuro-Surg. Div., Director, Lab. Exp. Research, *ibid.,* 1925-31; Prof. Surg., *ibid.;* Attend. Surg., Wesley Mem. Hosp., Passavant Mem. Hosp., and Michael Reese Hosp., Chicago; Consult. Neurol. Surg., Edward Hines, Jr. Mem. Hosp.

DAWSON, ROGER PAUL
A.B., Holy Cross, 1907; M.D., Harv., 1911; Med. H. O., Carney Hosp., Boston, 1911-12; *Med. H. O., P. B. B. H., Nov. 1, 1912-Nov. 1, 1913;* Fellow in Med., Harv., 1914-15; Phys., Carney Hosp., O. P. D., 1914-15; *Assoc. in Med., P. B. B. H., July 1, 1915-Dec. 31, 1916;* Asst. Phys., Boston Disp., O. P. D.; Phys. to O. P. D., M. G. H.; Asst. in Med., Harv.; in practice, Boston.

DAYTON, THEODORE READ
A.B., Amherst, 1916; M.D., Harv., 1925; *Surg. H. O., P. B. B. H., March 1, 1926-July 1, 1927.*

DEAN, JR., ARCHIE LEIGH
B.S., Cornell, 1913; M.D., *ibid.,* 1917; *Surg. H. O., P. B. B. H., May, 1917-Feb., 1918;* 1st Lieut., M. C., U. S. Army, 1918-19; Assoc. Surg., Mem. Hosp., N. Y.; Assoc. Urol., Fifth Ave. Hosp., N. Y.; Visit. Urol., Reconstruction Hosp., N. Y.; Consult. Urol., Somerset Hosp., N. Y.; in practice, New York.

DEROW, HARRY A.
M.B., Boston Univ., 1926; M.D., *ibid.*, 1927; Pathol. H. O., M. G. H., June, 1927-Jan., 1928; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929;* Teach. Fellow in Med., Harv., 1929-30; Asst. in Med., *ibid.;* Res. Phys., Beth Israel Hosp., Aug., 1929-Aug., 1931; Med. Co-Ordinator, O.P.D., *ibid.;* in practice, Boston.

DEVAN, THOMAS ALAN
B.S., Rutgers, 1906; M.D., Johns Hopkins, 1910; H. O., Presbyterian Hosp., New York, 1911-13; *Second Asst. Supt., P. B. B. H., Aug. 1, 1913-May 1, 1917; First Asst. Supt., ibid., May 1, 1917-July 1, 1919;* 1st Lieut., M. C., U. S. Army, Nov. 5, 1918-Dec. 6, 1918; College Phys. and Prof. of Hygiene, Rutgers Coll., New Brunswick, New Jersey, July, 1919-July, 1925; Asst. Director, Strong Mem. Hosp., Rochester, New York, Sept., 1925-May, 1930; Supt., Eastern Maine Gen. Hosp., Bangor, Maine.

DIACK, SAMUEL
B.S., Chem. Engineering, Calif. Inst. of Tech., 1925; M.S., Physiol. Chem., Univ. of Mich., 1926; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H., July 1, 1930-Nov. 1, 1931.*

DIAL, DONALD EMORY
B.A., Yale, 1925; M.D., *ibid.*, 1928; Pathol. Interne, New Haven Hosp., 1928-29; Fellow in Plastic Surg., Johns Hopkins Hosp., 1929-30; *Surg. H. O., P. B. B. H., Apr. 1, 1930-Aug. 1, 1931;* Asst. Res. in Surg., Obst. and Gyn., New Haven Hosp.

DOCK, WILLIAM
B.S., Wash. Univ., 1920; M.D., Rush Med. Coll., 1922; *Med. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923; Asst. Res. Phys., ibid., Nov. 1, 1923-Nov. 1, 1924;* Grad. Stud., Vienna, Austria; Med. Res., Lane and Stanford Hosp., San Francisco, Calif.; Asst. Clin. Prof. Med., Stanford Univ.; Asst. Prof. Med., *ibid;* Assoc. Prof., *ibid.*

DOEGE, PAUL FREDERICK
Univ. of Wis., 1917-20; Western Reserve Univ., 1920-22; M.D., Harv., 1926; *Pathol. H. O., P. B. B. H., Oct. 1, 1926-Jan. 1, 1927.*

DONALD, DOUGLAS
B.S., Univ. of Mich., 1916; M.D., Harv., 1918; *Med. H. O., P. B. B. H., Feb. 12, 1918-March 1, 1919; Asst. Res. Phys., ibid., March 1-June 16, 1919;* Henry Ford Hosp., 1919-20; Assoc. Prof. Med., Detroit Coll. of Med.; Attend. Phys., Receiving Hosp.; Asst. Phys., Harper Hosp.; Consult., Herman Kiefer Hosp.; in practice, Detroit, Mich.

DOTT, NORMAN MCOMISH
M.B., Ch.B., Edinburgh; F.R.C.S., Edinburgh; *Jr. Assoc. in Surg., P. B. B. H., Nov., 1923-June, 1924;* Neurol. Surg., Royal Infirmary, Edinburgh and Jordanburn Nerve Hosp., Edinburgh; *Act. Asst.*

Res. Surg., P. B. B. H., July-Aug., 1929; Surg., Royal Hosp. for Sick Children, Edinburgh; Lect. in Edinburgh Univ.

DOTY, EDWIN J.
M.D., Univ. of Mich., 1929; *Med. H. O., P. B. B. H., Mar. 1, 1930-*July 1, 1931; Asst. Phys., State Psychopathic Hosp., Ann Arbor, Mich., and Instr. in Psychiatry, Univ. of Mich. Med. Sch.

DOZIER, PAUL C.
A.B., Univ. of Calif., 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H., Nov. 1, 1929-March 1, 1931;* Asst. Phys., Boston Psychopathic Hosp., 1931-32; Research Assoc., Neurol. Inst. of N. Y.

DRINKER, CECIL KENT
B.S., Haverford, 1908; M.D., Univ. of Pa., 1913; Vol. Asst., Dept. of Pharmacology, Univ. of Pa. Med. Sch., 1913-14; *Med. H. O., P. B. B. H., March 1, 1914-July 1, 1915;* Asst. in Physiol., Johns Hopkins, 1915-16; Instr. in Physiol., Harv., 1916-18; *Res. Phys., P. B. B. H., July 10-Oct. 15, 1917;* Asst. Prof. Physiol., Harv., 1918-19; Assoc. Prof. Applied Physiol., *ibid.,* 1919-23; Asst. in Med., M. G. H., 1922; Asst. to the Visit. Phys., B. C. H., 1922-24; Special Research, Lab. of Zoöphysiology, Univ. of Copenhagen, Denmark, 1926-27; Prof. of Physiol., Harv.; Asst. Dean, Harv. Sch. Public Health; Act. Dean, *ibid.,* May 1, 1930-Feb. 1, 1931.

DRINKER, KATHERINE ROTAN
A.B., Bryn Mawr, 1910; M.D., Women's Med. Coll. of Pa., 1914; *Asst. Res. Phys., P. B. B. H., July 7-Sept. 24, 1917;* Research Worker in Physiol., 1914-15, 1916-17; *ibid.,* Johns Hopkins, 1915-16; Managing Ed., Journal Indust. Hygiene, 1918-21; Lect. in Hygiene, Bryn Mawr Coll., 1921-23; Research Worker in Physiol., Harv., 1921-26.

DYKE, CORNELIUS
B.S., Univ. of Iowa, 1926; M.D., *ibid.,* 1926; Interne, Chelsea Naval Hosp., 1926-27; *H. O., Roent., P. B. B. H., 1927-28; Asst. Res. in Roent., ibid., 1928-29;* Asst. Director, Dept. of Roent., Neurol. Inst. of New York.

EDSON, PHILIPS JOSIAH
A.B., Univ. of Cal., 1920; M.A., *ibid.,* 1921; M.D., *ibid.,* 1924; Stud. Interne, Hahnemann Hosp., summer 1922; Med. Officer to Sierra Club Outings, 1921-22; Interne, Yosemite Hosp., Cal., 1923; *Med. H. O., P. B. B. H., Nov. 1, 1923-March 1, 1925; H. O., X-ray Dept., ibid., March 1-Sept. 1, 1925;* Jr. Member of Staff in Med., Pasadena Hosp.; Roentgenologist, Pasadena Disp., and Pasadena Chest Clin.; Lecturer on Pathol., Pasadena Hosp. Nursing School; Asst. Vis. Phys., Los Angeles Gen. Hosp.; Instr. in Phys. Diagnosis, College of Med. Evangelists; in practice, Pasadena, Calif.

EDWARDS, SUMNER
A.B., Bowdoin, 1910; Stud., Hebron Acad., Me., 1910-11; M.D., Harv., 1915; *Med. H. O., P. B. B. H., Nov. 1, 1915-Jan. 6, 1916. Died Jan. 6, 1916.*

ELIOT, MARTHA MAY
A.B., Radcliffe, 1913; M.D., Johns Hopkins, 1918; *Med. H. O., P. B. B. H., June 15, 1918-July 1, 1919;* St. Louis Children's Hosp., 1919-20; Phys., Boston, Massachusetts, 1920-21; Dept. of Pediatrics, New Haven Hosp., New Haven, Connecticut, 1921-23; Instructor, Yale, 1921-26; Asst. Clin. Prof. Pediatric Dept., Yale, 1926-32; Assoc. Clin. Prof., *ibid.;* Director, Div. of Child Hygiene, U. S. Children's Bureau, Washington, D. C.

ELKIN, DANIEL COLLIER
A.B., Yale, 1916; M.D., Emory Univ., 1920; Asst. Res. Surg., New York Lying-In Hosp., 1920; *Surg. H. O., P. B. B. H., March 1, 1921-July 1, 1922; Asst. Res. Surg., ibid., July 1, 1922-July 1, 1923; Res. Surg., ibid., July 1-Sept. 1, 1923;* Asst. in Surg., Harv., 1923; Instr. in Surg., Emory Univ. Sch. of Med., 1924; Assoc. in Surg., *ibid.*, 1924-30; Prof. of Surg., Emory Univ. and Surg.-in-chief to University Hospitals; Surg.-in-chief, Henrietta Egleston Hosp. for Children, Atlanta, Georgia.

ENGELBACH, FRIEDRICH
A.B., Illinois College, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929;* Instr. in Dept. of Internal Med., Univ. of Mich., 1930-32; in practice, Jacksonville, Ill.

EVANS, JAMES A.
A.B., Univ. of Wis., 1917; M.D., Harv., 1920; Med. Interne, Barnes Hosp., St. Louis; Group Practice, 1 yr.; St. Frances Hosp., La Crosse, Wisconsin; June, 1922, holder of Scholarship in France under Professors Gilbert and Widal and Dr. Bensaude; *Asst. Res. Phys., P. B. B. H., July 10, 1923-July 1, 1924;* Asst. Preceptor in Med., Univ. of Wis. Med. School; Vice-Chairman, Wis. Radiological Section; Mem., Central Soc. for Clin. Research; Vis. Phys., Oak Forest Sanatorium; in practice, La Crosse, Wis.

FALK, EMIL A.
A.B., Univ. of Minn., 1921; M.D., Harv., 1925; *Med. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926;* Pathology, B. C. H., 1927; Med. Res., Second (Cornell) Med. Div., Bellevue Hosp., New York, 1927-29; National Hosp., Queen's Sq., London, England, May-Oct., 1929; Instr., Clin. Med., Cornell Univ.; Clin. Asst. Visit. Phys., Bellevue Hosp.; Asst. Phys., O. P. D., New York Hosp.; in practice, New York City.

FALLON, JOHN
A.B., Holy Cross, 1919; M.D., Harv., 1923; Asst. in Anat., Harv., 1923-25; Surg. H. O., St. Vincent Hosp., Worcester, 1924-25; *Surg. H. O., P. B. B. H., March 1, 1925-July 1, 1926;* Fellow in Surg.,

Mayo Clin., Rochester, Minnesota, 1927-29; (on leave of absence, 1927); Surg. Res., St. Vincent Hosp., Worcester, 1927; Surg., *ibid.*

FALLON, LOUIS
M.D., Univ. of Pa., 1916; F.A.C.S.; *Surg. H. O., P. B. B. H., July 1, 1916-Nov. 15, 1916;* M. C., U. S. Army 1918-19; Capt. with Base Hosp. 51 and 69 and Gen. Hosp. 31, Carlisle, Pennsylvania; Consult. Surg., National Soldiers' Home, Togus; in practice, Augusta, Maine.

FARBER, SIDNEY
B.S., Univ. of Buffalo, 1923; M.D., Harv., 1927; *H. O., Pathol., P. B. B. H., Jan. 1-Sept. 1, 1927;* Res. Pathol., Children's Hosp., Sept. 1, 1927-Sept. 1, 1928; Guest Asst., Univ. of Munich Pathol. Inst., 1928-29; Instr. in Pathol., Harv.; Asst. Pathol., Children's Hosp., 1930-31; Pathol., *ibid.*

FARBER, WILLIAM P.
A.B., Univ. of Cal., 1922; M.A., *ibid.*, 1923; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., March 1, 1927-July 1, 1928;* Asst. Phys., U. S. Fed. Penitentiary, Atlanta, Georgia, 1928-29; Asst. in Urol. to Dr. Montague Boyd, Atlanta, Georgia, 1929-30; Res. in Urol., Grady Hosp., Atlanta, Georgia, 1930-31; in practice of Urology, St. Petersburg, Florida.

FARNSWORTH, RICHARD WIGGIN
A.B., Univ. of Wis., 1924; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., April 1, 1929-Aug. 1, 1930;* in practice, Janesville, Wis.

FARRELL, JAMES IRVING
A.B., Hamilton, 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H. July 1, 1929-Nov. 1, 1930;* H. O., Mass. Eye and Ear Infirmary, 1930-32; Ophthal. Surg., Faxton Hosp., Utica Gen. Hosp. and Utica Free Disp.; in practice, Utica, N. Y.

FEENEY, NEIL
B.A., M.D., McGill Med. School, 1927; Interne, Montreal Gen. Hosp.; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1929-Aug. 1, 1930;* Asst. Demonstr. in Med., McGill Med. Sch.; in practice, Montreal.

FENDER, FREDERICK ALLEN
A.B., Univ. of Calif., 1924; M.D., Harv., 1929; *Surg. H. O., P. B. B. H., Oct. 1, 1929-Feb. 1, 1931;* H. O., B. C. H.

FETNER, L. M.
M.D., Med. Coll. of Va., 1915; *H. O. Roentgenology, P. B. B. H., Oct. 1, 1926-Oct. 1, 1927; Asst. Res. Roent., ibid., 1927-28;* in practice, Charlotte, N. C.

FISHBACK, FRED C.
A.B., Harv., 1919; M.S., Surg., Univ. of Minn., 1928; M.D., Harv., 1922; H. O., St. Francis Hosp., Jersey City, New Jersey; *Pathol. H. O., P. B. B. H., May 15, 1923-Feb. 1, 1924;* 1 yr. at Woman's

Hosp., New York; New York Lying-In Hosp., 1925; Fellow in Surg., Mayo Clinic, Rochester, Minnesota, 1925-28; Assoc. Prof. Clin. Surg., Georgetown Univ. Med. Sch., 1930-31; in practice, Washington, D. C.

FISHER, RIVINGTON H.
M.B., Queen's Univ., 1915; M.D., *ibid.;* C.M., *ibid.; Asst. Res. Surg., P. B. B. H., July 13, 1923-Jan. 1, 1924.*

FISKE, SEYMOUR
A.B., Univ. of Wis., 1916; M.D., Univ. of Pa., 1920; *Med. H. O., P. B. B. H., April 1, 1920-July 1, 1921;* Out-Patient Attend., Babies' Hosp., New York, 1921-22; Attend. Phys., Cornell Clin., 1921-23; Attend. Gastro-Enterologist, Vanderbilt Clin., New York, 1923-24; Chief, G. I. Clin., Midtown Hosp., New York, 1925-26; Asst. Attend. Phys., Lutheran Hosp. of Manhattan; Asst. Attend. Phys., Presbyterian Hosp., O. P. D., New York; in practice, New York.

FITZHUGH, GREENE S.
B.S., Univ. of Illinois, 1921; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July 1, 1927-Nov. 1, 1928; Jr. Assoc. in Med., ibid., Nov. 1, 1928-Sept. 15, 1929;* Asst. Res. Phys., Thorndike Lab., B. C. H., 1929-30; in practice, Boston.

FLEMING, HOWARD
A.B., Univ. of Cal., 1914; M.D., *ibid.,* 1917; Med. and Surg. H. O., Univ. of Calif., 8 mos.; Capt., M. C., U. S. Army; Asst. Res. Surg., San Francisco Hosp., 1919; *Asst. Res. Surg., P. B. B. H., Dec. 20, 1919-Feb. 1, 1921;* Asst. Prof., Univ. of Cal.; Visit. Neuro-Surg., St. Luke's, Mt. Zion, and San Francisco Hospitals; in practice, San Francisco.

FLEMING, LEROY NEWTON
A.B., Miami, 1910; M.D., Johns Hopkins, 1914; Asst. in Surg., *ibid.,* 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1916;* Special Stud., Univ. of Mich., 1915-16; Surg. Research, Detroit, Michigan.

FOLEY, FREDERIC E. B.
Ph.B., Yale, 1913; M.D., Johns Hopkins, 1918; Asst. in Pathol., *ibid.,* 1918-19; Lab. for Surg. Research, Harv., 1919-20; *Surg. H. O. P. B. B. H., March 1, 1920-July 1, 1921;* Assistant Prof. of Urol., Univ. of Minn. Med. Sch.; Chief Urologist, Ancker Hosp., St. Paul, Minnesota; Visit. genitourinary Surg., Miller Hosp.; in practice, St. Paul, Minnesota.

FORBES, HENRY STONE
A.B., Harv., 1905; Philippine Islands, 1905-06; M.D., Harv., 1911; Med. H. O., B. C. H., 1911-13; *Sr. Med. H. O., P. B. B. H., June 1-Nov. 1, 1913;* Phys. for Men, Infirmary, Univ. of Cal., Berkeley, Cal., 1914-15; Am. Red Cross, Serbia, 1915-16; Asst. Phys., M. G. H., O. P. D.; Lieut. and Capt., M. C., U. S. Army, 1917-19; Re-

search Work, Cancer Commission, Harv.; Lab. and Field Work, Div. Industrial Hygiene, *ibid.;* Hon. Research Fellow, Applied Physiol., Yale Univ., New Haven, Connecticut; Research Work, Neuropathol., Harv.; Research Fellow Neuropathol., *ibid.*

FORT, JR., LYNN
B.S., Univ. of Ga., 1921; M.D., Emory Univ., 1925; Interne, Cincinnati Gen. Hosp., July, 1925-Feb., 1926; *Surg. H. O., P. B. B. H., March 1, 1926-July 1, 1927;* Asst. Res. Surg., Strong Mem. Hosp., Rochester, N. Y., 1927-28; in practice, Atlanta, Ga.

FOSTER, JOHN HESS
B.S., Colby, 1913; M.D., Univ. of Pa., 1917; *Med. H. O., P. B. B. H., July 1, 1917-June 15, 1918;* 1st Lieut., M. C., U. S. Army, 1918-19; Instr. in Med., Hunan-Yale Coll. of Med., Changsha, China; Vol. Asst., Thorndike Mem. Lab., B. C. H., 1923-24; Asst. in Med., Harv., 1924; Asst. Prof. in Med., Hunan-Yale Coll. of Med., Changsha, China; Assoc. Prof. of Med., *ibid.*, 1924-27; Attend. Phys., Waterbury Hosp.; in practice, Waterbury, Conn.

FOSTER, LEWIS CHANDLER
A.B., Univ. of Kansas, 1919; M.D., Harv., 1923; Substitute, Med. Serv., New York Hosp., 2 mos., 1922; *Surg. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924;* Asst. Res. Surg., New Haven Hosp., 1924-25; Res. Surg., *ibid.*, 1925-27; Instr. Surg., Yale Med. School, 1925-28; Asst. Clin. Prof. Surg., *ibid.*

FREMONT-SMITH, FRANK
M.D., Harv., 1921; *Pathol. H. O., P. B. B. H., July 1, 1921-July 1, 1922;* Med. H. O., B. C. H., 1922-23; Asst. in Neuropathol., Harv., 1923-24; Asst. in Neurol., M. G. H.; Asst. in Neuropathol., Harv., 1924-25 and 1925-26; John White Brown Scholar, Harv., 1924-25 and 1925-26; Jr. Visit. Phys., for Neurol., B. C. H., 1927-29; Research Fellow, Thorndike Mem. Lab., B. C. H., 1927-30; Asst. Vis. Phys. for Neurol., *ibid.;* in charge, Cerebrospinal Fluid Lab., B. C. H.; Asst. Prof. Neuropathol., Harv.; Chief of Neurol. Labs., B. C. H.

FREMONT-SMITH, MAURICE
A.B., Harv., 1913; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., March 1, 1918-Feb. 7, 1919;* in charge of hosp. at Sivas, Armenia, 1919-20; in practice, Boston.

FRIEDGOOD, HARRY B.
A.B., Univ. of Mich., 1924; M.D., Johns Hopkins, 1928; Act. Interne, Simpson Memorial Inst., Ann Arbor, Mich., Sept., 1927-Feb., 1928; *Med. H. O., P. B. B. H., Nov. 1, 1928-March 1, 1930;* Jr. Instr. in Int. Med., Univ. of Mich., March 1, 1930-July 1, 1930; Instr. in Int. Med., *ibid.*

FULTON, JOHN
B.A., Oxon, 1923; M.A. and Ph.D., *ibid.*, 1925; M.D., Harv., 1927; Rhodes Scholar, Magdalen College, Oxford Univ., 1921-23; *Jr.*

Assoc. in Neurol, Surg., P. B. B. H., March-June, 1928; Research Fellow, Magdalen College, Oxford, England, 1928-30; Sterling Prof. of Physiology, Yale Univ. Sch. of Med.

GABE, WILLIAM EDWIN
M.D., Harv., 1918; *Surg. H. O., P. B. B. H., March 1, 1918-March 31, 1919;* Instr. in Surg., Indiana Univ. Sch. of Med.; Visit. Staff in Gynecology, Indianapolis City Hosp.; Staff, Methodist Episcopal Hosp., and St. Vincent's Hosp., Indianapolis; in practice, Indianapolis, Indiana.

GERMAN, WILLIAM J.
A.B., Univ. of Calif., 1922; M.A., *ibid.,* 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927;* Fellow in Plastic Surg., Johns Hopkins; Asst. in Surg., Yale Univ. School of Med., and Asst. Res. in Surg., New Haven Hosp., 1928-29; William Harvey Cushing Fellow in Surg., Yale Univ. School of Med.

GILE, HAROLD H.
A.B., Princeton, 1915; M.D., Columbia (Coll. of Phys. and Surgs.), 1922; Surg. Interne, Presbyterian Hosp., New York, 1922-24; *Asst. Res. Surg., P. B. B. H., Jan. 1-Nov. 1, 1925;* Asst. Visit. Urologist, Presbyterian Hosp., New York.

GLENN, FRANK N.
M.D., Washington Univ., 1927; Med. Service, Strong Mem. Hosp., July, 1927-July, 1928; *Surg. H. O., P. B. B. H., Jan. 1, 1929-May 1, 1930; Asst. Res. Surg., ibid., May 1, 1930-Apr. 15, 1931; Interim Res. Surg., ibid., July 13, 1931-Oct. 1, 1931;* George Gorham Peters Trav. Fellow, 1931-32; 1st Asst. Res. Surg., N. Y. Hosp.; Asst. in Surg., Cornell Med. Coll.

GOETSCH, EMIL
S.B., Univ. of Chicago, 1903; Ph.D., *ibid.,* 1906; Fellow Asst. and Assoc. in Anat., *ibid.,* 1904-08; Research Asst., Dept. of Exp. Therapeutics, *ibid.,* 1908-09; Rush Med. Coll., 1906-07; M.D., Johns Hopkins, 1909; Asst. in Surg., *ibid.,* 1909-10; Asst. Res. Surg., *ibid.,* 1910-12; *Res. Surg., P. B. B. H., Sept. 1, 1912-Sept. 1, 1915;* Asst. in Surg., Harv., 1912-15; Assoc. in Surg., Johns Hopkins, 1915-18; Assoc. Prof. of Surg., *ibid.,* 1918-19; Prof. of Surg. and Surg.-in-Chief, Long Island Coll. Hosp., Brooklyn, New York; in practice, Brooklyn, New York.

GOLDEN, ROSS
A.B., Cornell (Mt. Vernon, Iowa), 1912; M.D., Harv., 1916; *Med. H. O., P. B. B. H., July 1, 1916-July 18, 1917;* Capt. and Major, M. C., U. S. Army, 1917-20; House Phys., X-ray Dept., M. G. H., 1920-21; *Asst. Res. Phys., P. B. B. H., July 1, 1921-April 15, 1922;* Visit. Phys., Roentgen-ray Dept., Presbyterian Hosp., New York; Assoc. Prof. of Med., Columbia Univ.

GOODALL, HARRY WINFRED

A.B., Dart., 1898; M.D., Harv., 1902; House Pupil, M. G. H., 1902-03; House Pupil, Boston Lying-In Hosp., 1903; *Assoc. in Med., P. B. B. H., Dec. 12, 1912-Dec. 31, 1917;* Lieut. Col., M. C., U. S. Army, 1917-19; Instr. in Med., Harv. Grad. Sch. of Med.; Phys., Boston Dispensary; Asst. Visit. Phys., N. E. Baptist Hosp.; in practice, Boston.

GOODPASTURE, ERNEST WILLIAM

A.B., Vanderbilt, 1907; M.D., Johns Hopkins, 1912; Rockefeller Fellow in Pathol., Johns Hopkins, 1912-14; Pathol., Union Protest. Infirmary, Baltimore, 1913-14; Asst. Res. Pathol., J. H. H., 1913-14; Act. Res. Pathol., *ibid.,* 1914-15; Instr. in Pathol., Johns Hopkins, 1914-15; *Res. Pathol., P. B. B. H., Sept. 1, 1915-Oct. 1, 1917;* Asst. Prof. Pathol., Harv.; Fellow in Pathol., Cancer Comm., *ibid.;* Lieut. (j. g.) M. C., U. S. N. R. F.; *Act. Pathol., P. B. B. H., Feb. 1-Aug. 15, 1920;* Chief, Dept. of Pathol. and Bacteriol., Univ. of Philippines, 1922; Pathol., Phil. Gen. Hosp., Manila, 1922; Director, William H. Singer Mem. Research Lab., Pittsburgh, 1922-24; Scholarship, Gen. Education Board of the Rockefeller Found. Inst. for Gen. and Exp. Pathol., Vienna, 1924-25; Prof. of Pathol., Vanderbilt Univ.

GORDON, BURGESS

A.B., Gonzaga Univ., 1912; M.D., Jefferson Med. Coll., 1919; Interne, Jefferson Hosp., 1919-21; *Asst. Res. Phys., P. B. B. H., Sept. 15, 1921-Aug. 1, 1922; Res. Phys., ibid., Aug. 1, 1922-Sept. 1, 1925;* Assoc. Prof. Med., Jefferson Med. College; Asst. Phys., O. P. D., Pennsylvania Hosp.; Visit. Phys., White Haven San.; Med. Director and Phys. in charge, Dept. for Diseases of Chest, Jefferson Hosp., Phildelphia; in practice, Philadelphia, Pa.

GRAHAM, WILLIAM RANDOLPH

M.D., Med. Coll. of Va., 1925; Interne, Johnston-Willis Hosp., Richmond, Va., 1925-26; *Jr. Assoc. in Med., P. B. B. H., 1926-27;* in practice, Richmond, Virginia.

GRANT, SAMUEL BECKER

B.S., Washington Univ., 1918; M.D., *ibid.,* 1920; *Med. H. O., P. B. B. H., Oct. 16, 1920-March 1, 1922;* Med. H. O., J. H. H., March 1, 1922-May 1, 1922; *Asst. Res. Phys., P. B. B. H., April 15, 1922-Sept. 15, 1923;* Asst. in Clin. Med., Wash. Univ.; Asst. in Med., Barnes Hosp.; in practice, St. Louis, Missouri.

GRAVES, EDWIN G.

A.B., Univ. of Texas, 1920; M.D., Harv., 1924; *Med. H. O., P. B. B. H., July 1, 1924-July 1, 1925;* in practice, Houston, Texas.

GRAVES, ROGER COLGATE

A.B., Syracuse Univ., 1913; M.D., *ibid.,* 1918; *Surg. H. O., P. B. B. H., Aug. 15, 1918-Oct. 19, 1919;* Asst. Res. Surg., New Haven

Hosp., New Haven, Connecticut, 1919-20; *Asst. Res. Surg., P. B. B. H., July 15, 1920-Aug. 1, 1921; Assoc. in Surg., ibid., Sept. 1, 1921-April, 1923;* Cabot Fellow, Harv., in charge of Lab. of Surg. Research, Sept. 1, 1921-Sept. 1, 1922; Urologist, Carney Hosp.; Genito-Urinary Surg., Pondville State Hosp. for Cancer; Assoc. Consult. Urologist, Brockton Hosp.; Consult. Urol., Quincy, N. E. Deaconess, and Winchester Hospitals; in practice, Boston.

GRAY, HORACE
A.B., Harv., 1909; M.D., *ibid.,* 1914; *Med. H. O., P. B. B. H., Nov. 1, 1914-March 1, 1916;* Inst. for Juv. Research, Chicago, Ill., 1926-29; Assoc. Clin. Prof. Med., Stanford Univ., San Francisco, Calif.

GREEN, GEORGE F.
B.S., Univ. of Mich., 1922; M.S. in Surg., Univ. of Minn., 1929; M.D., Univ. of Mich., 1924; Asst. in Physiol., *ibid.;* Asst. in Med., B. C. H., IV Med. Serv.; *Jr. Assoc. in Pathol., P. B. B. H., Oct. 1, 1924-Jan. 15, 1925;* Fellow in Surg., Mayo Foundation, 1925-29; Staff Surg., St. Joseph's Hosp. and Epworth Hosp., South Bend, Ind.; in practice, South Bend, Ind.

GREEN, WILLIAM T.
A.B., Indiana Univ., 1921; A.M., *ibid.,* 1922; M.D., *ibid.,* 1925; Instr. in Anat., Indiana Univ., 1921-22; Interne, Indiana Univ. Hosp.; Asst. Res. Surg., Henry Ford Hospital, Detroit; *Surg. H. O., P. B. B. H., Aug. 1, 1929-Feb. 1, 1930; Asst. Res. Surg., ibid., Feb. 1, 1930-Oct. 1, 1930.*

GREENE, JAMES A.
M.D., Harv., 1925; *Med. H. O., P. B. B. H., Nov., 1925-March, 1926.*

GREENE, THEODORE C.
A.B., Harv., 1920; M.D., *ibid.,* 1924; Asst. in Pathol., Johns Hopkins, Sept., 1924-Jan., 1925; *Surg. H. O., P. B. B. H., March 1, 1925-July 1, 1926;* Asst. in Clin. Neurol., Peking Union Med. Coll., Sept. 15, 1929-May 15, 1930; Surg., Douw Hosp., Presbyterian Mission, Peking, China.

GREENSPON, EDWARD A.
M.D., McGill Univ., 1916; House Bacteriol., Royal Victoria Hosp., Montreal, 1916-17; Asst. Res. Pathol., Johns Hopkins, 1917-18; Capt., Canadian Army Med. Corps; *Res. Pathol., P. B. B. H., Oct. 1, 1919-April 1, 1920; Med. H. O., ibid., April 1, 1920-July 1, 1921;* May Fellow in Med. Research, Johns Hopkins; Asst. in Med., *ibid.,* 1921-23; Jr. Attend. Phys., Montreal Gen. Hosp.; in practice, Montreal, Canada.

GREY, ERNEST
A.B., Univ. of Wis., 1907; Asst. in Anat., *ibid*, 1907-08; Stud. in Med., *ibid.,* 1907-08; M.D., Johns Hopkins, 1911; Res. H. O., *ibid.,* 1911-12; *Surg. H. O., P. B. B. H., Nov. 1, 1912-Feb. 12, 1914; Asst.*

Res. Surg., ibid., Feb. 12, 1914-Sept. 1, 1916; Asst. in Surg., Harv., 1915-16; Instr. in Surg., Johns Hopkins. *Died Oct. 12, 1918.*

GUNDERSEN, TRYGVE
M.D., Harv., 1926; *Surg. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928;* Ophthalmic Interne, Mass. E. and E. Infirm., 1929-30; Clin. Asst., *ibid.;* Asst. in Ophthalmology, Harv.; in practice, Boston.

HAIGHT, L. CAMERON
A.B., Univ. of Calif., 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928;* Asst. Res. Surg., New Haven Hosp., 1928-31; Instr. in Surg., Univ. of Mich.

HALBERSLEBEN, DAVID L.
A.B., Univ. of Nebraska, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929;* in practice, Roslindale, Massachusetts.

HALE, WORTH
A.B., Univ. of Mich., 1908; M.D., *ibid.,* 1904; *Assoc. in Med., P. B. B. H., Nov. 1, 1917-Dec. 31, 1918;* Assoc. Prof. of Pharm. and Asst. Dean, Harv.

HALL, FRANCIS C.
Litt.B., Princeton, 1913; M.D., Harv., 1917; H. O., M. G. H., 1918; M.C., U. S. Army, 1918-19; Asst. Visit. Phys. and Visit. Phys. to O. P. D., M. G. H., 1920-22; *Assoc. in Med., P. B. B. H., Apr. 14, 1921-Sept. 24, 1931;* Research Fellow, Thorndike Mem., B. C. H.; Asst. in Med., Harv.; in practice, Boston, Mass.

HALLER, DAVID ALEXANDER
A.B., Hampden-Sidney, 1908; M.D., Columbia, 1913; *Med. H. O., P. B. B. H., Nov. 1, 1913-March 1, 1915; Asst. Res. Phys., ibid., March 1, 1915-Oct. 1, 1916; Res. Phys., ibid., Oct. 1, 1916-June 6, 1917;* Major, M. C., U. S. Army, 1917-19; Junior Attend. Phys., Hahnemann Hosp., 1920-21; Internist for the Rochester Clinic, Rochester, New York, 1919-25; Asst. Phys., Rochester Gen. Hosp.; Phys. to Baden St. Disp., 1924-25; Instr. in Med., Univ. of Rochester Med. Sch., 1926-29; Asst. Prof. of Med., *ibid.;* Asst. Phys., Strong Mem. Hosp., Rochester, N. Y.; Chief, Med. Serv., Rochester Gen. Hosp.; in practice, Rochester, N. Y.

HANSMANN, GEORGE H.
M.D., Univ. of Iowa, 1918; Hosp. Chem., Iowa Univ. Hosp., 1918-19; Clin. Asst., Dept. of Internal Med., *ibid.,* 1919-20; Lect. in Clin. Microscopy, *ibid.,* 1920-21; *Res. Pathol., P. B. B. H., Sept. 15, 1921-Sept. 15, 1923;* Pathol., Iowa Univ. Hosp.

HARBIN, MAXWELL
B.S., Univ. of Georgia, 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., Nov. 1, 1920-March 1, 1922;* H. O., Children's Hosp., 1922-23; Surg., Harbin Hosp., 1923-25; Assoc. in Orthopedic

Surg., Lakeside Hosp.; Surg. in Charge, Rainbow Hosp.; Asst. Prof. Orthopedic Surg., Western Reserve Univ. School of Med.

HARBIN, JR., ROBERT MAXWELL
B.S., Univ. of Ga., 1925; M.D., Emory Univ. Med. School, 1928; *Surg. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929;* in practice, Rome, Ga.

HARRISON, TINSLEY RANDOLPH
A.B., Univ. of Mich., 1919; M.D., Johns Hopkins, 1922; *Med. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924; Asst. Res. Phys., ibid., March 1-Sept. 1, 1924;* Asst. in Med., Johns Hopkins; Res. Phys., Vanderbilt Univ. Hosp., Nashville, Tennesse; Instr. in Med., *ibid.*, 1926-27 (leave of absence, 1927-28); Asst. Prof. Med., *ibid.*, 1928-32; Assoc. Prof. of Med., *ibid.*

HARRISON, JR., WILLIAM GROCE
A.B., Univ. of Mich., 1924; M.D., Johns Hopkins, 1928; *Med. H. O., P. B. B. H., March 1, 1929-July 1, 1930.*

HARVEY, EARLE A.
B.S., Univ. of Wash., 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H., Nov. 1, 1929-March 1, 1931;* House Phys., Mercy Hosp., Denver, Colo.

HARVEY, SAMUEL CLARK
Ph.B., Yale, 1907; M.D., *ibid.*, 1911; Sc.D., Western Reserve, 1931; Alonzo Clark Fellow, Columbia, 1911-12; Instr. in Pathol., *ibid.*, 1912-13; Asst. Res. Phys., Loomis Sanitarium, Loomis, New York, 1913-14; *Surg. H. O., P. B. B. H., Nov. 1, 1914-Nov. 1, 1915;* Arthur Tracy Cabot Fellow, in charge of Lab. of Surg. Research, Harv., 1915-16; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1916-May 7, 1917;* Major, M. C., U. S. Army, 1917-19; Res. Surg., New Haven Hosp.; Instr. in Surg., Yale, 1919-20; Asst. Prof. of Surg., *ibid.*, 1920-21; Assoc. Prof. of Surg., *ibid.*, 1921-23; Consult. Surg., State of Conn. Tbc. Comm.; Surgeon-in-Chief, New Haven Hosp. and New Haven Disp.; Prof. of Surg., Yale.

HATCH, FLOYD FROST
A.B., Univ. of Utah, 1912; M.D., Harv., 1914; *Med. H. O., P. B B. H., March 1, 1914-Jan. 4, 1915 (granted leave of absence from Jan. 4-Feb. 28, 1915)*; Surg. House Pupil, M. G. H., 1915-16; House Surg., *ibid.*, 1916-17; Surg. to G. U. Dept., Salt Lake County Hosp., 1917-18; Surg. to G. U. Dept., L. D. S., Hosp., Salt Lake City, Utah; 1st Lieut., M. C., U. S. Army, 1918-19; Asst. County Phys., Salt Lake County Hosp., and Asst. Visit. Surg., *ibid.*, 1921-22; Post-Grad. Study of Surg., Europe, 1926-27; Sr. Visit. Surg., Latter Day Saints' Hosp.; Surg., Inter-Mountain Clin.; in practice, Salt Lake City, Utah.

H'Doubler, Francis Todd

B.A., Univ. of Wis., 1907; M.A., *ibid.*, 1908; Ph.D., *ibid.*, 1910; Stud., Univ. of Wis. Med. Sch., 1 year; Stud., Rush Med. Sch. and Univ. of Philippines, 1 year; M.D., Harv., 1915; H. O., Augustana Hosp., Chicago, 1915-16; *Med. H. O., P. B. B. H., Jan. 11, 1916-March 1, 1917;* H. O., Augustana Hosp., 1917-18; 1st Lieut. and Capt., M. C., U. S. Army, 1918-19; Moseley Travelling Fellow, Harv., 1919-20; Lakeside Hosp., Cleveland, Ohio, 1921; Instr. in Pathol. and Surg., Univ. of Ill., 1921-24; Jr. Attend. Surg., Augustana Hosp., Chicago; in practice, Chicago; Attend. Surg., St. John's, Burge Deaconess, and Springfield Baptist Hospitals; in practice, Springfield, Mo.

Head, Jerome R.

M.D., Harv., 1922; *Surg. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923;* Surg. Pathol., Mayo Clin., Rochester, Minnesota, 1924; Res. Surg., State of Wis. Gen. Hosp., Madison, 1924-26; Assoc. in Surg., Northwestern Univ.; in practice, Chicago, Ill.

Henderson, William Robert

M.B., Ch.B., Edinburgh, 1926; House Surg., Royal Infirmary, Edinburgh, 1926-27; House Surg., Sick Children's Hosp., Edinburgh, 1927; Rockefeller Fellow, British Research Council; *Asst. Res. Surg., P. B. B. H., May 1, 1930-Mar. 15, 1931;* Clin. Asst. in Neuro-Surgery, Edinburgh Royal Infirm.

Herrick, Theodore Pomeroy

A.B., Yale, 1915; M.D., Harv., 1919; *Med. H. O., P. B. B. H., Dec. 26, 1918-Jan. 1, 1920;* Med. H. O., Children's Hosp., Boston, 1920; H. O., Infants' Hosp., Boston, 1921; Res. Pediatrician, Rainbow Hosp., Cleveland, Ohio, 1921-24; Asst. Visit. Pediatrician, St. Vincent's Charity Hosp., Cleveland, Ohio, 1921-28; Asst. Visit. Pediatrician, St. Luke's Hosp., Cleveland, Ohio, 1922-23, and from 1928 to present time; in practice, Cleveland, Ohio.

Herrmann, George R.

B.S., Univ. of Mich., 1916; M.D., M.S., *ibid.*, 1918; Ph.D., *ibid.*, 1922; *Med. H. O., P. B. B. H., Oct. 1, 1918-Oct. 1, 1919;* Asst. Res. Phys., Barnes Hosp., 1919-20; Res. Phys., *ibid.*, and Asst. in Med., Wash. Univ., St. Louis, 1920-21; Instr. in Med., Univ. of Mich., and Asst. Prof. Med., *ibid.*, 1921-25; Asst. Prof. of Med. and Assoc. Prof. of Med., Tulane Univ., New Orleans, La.; Prof. of Clin. Med., Univ. of Texas, Galveston, Tex.

Herrmann, Louis G.

A.B., Univ. of Mich., 1920; M.D., Wash. Univ. Med. Sch., 1924; Interne, Maryland Gen. Hosp., Baltimore, July 1, 1924-March 1, 1925; *Med. H. O., P. B. B. H., March 1, 1925-July 1, 1926;* Asst. Res. Surg., Lakeside Hosp., Cleveland, Ohio, 1926-27; Crile Research Fellow in Surg. and Director, Lab. of Surg. Research, Western Reserve Univ. and Lakeside Hosp., 1927-28; Res. Surg., Lake-

side Hosp.; Instr. in Surg., Western Reserve Univ., 1929-30; Asst., Clinique Chirurgicale A (Prof. Leriche) Univ. de Strasbourg, Strasbourg, France, 1930-31; Asst. Chirurgische Universitats Klinik (Prof. P. Clairmont) Univ. of Zurich, Switzerland, 1931-32; Asst. Prof. of Surg., Univ. of Cincinnati.

Hertig, Arthur T.
B.S., Univ. of Minn., 1928; M.D., Harv., 1930; *Pathol. H. O., P. B. B. H., July 1, 1930-July 1, 1931;* Pathol., B. L. I.

Higbee, Daniel Riggs
A.B., Col. Coll., 1920; M.D., Harv., 1923; Med. H. O., M. G. H., March, 1924-Nov., 1925; *Surg. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927;* in practice, Denver, Colo.

Hjort, Axel Magnus
A.B., Univ. of Ill., 1914; M.S., *ibid.,* 1915; Ph.D., Yale, 1918; M.D., Yale Univ. Med. Sch., 1921; *Med. H. O., P. B. B. H., July 1, 1921-Nov. 1, 1922;* Parke Davis & Co., Detroit, Michigan, 1923-26; Prof. Pharmacology, Dart. Med. Sch., Hanover, N. H., 1926-29; Toxicologist and Asst. Director of Med. Research, Med. Research Div., Chemical Warfare Service, Edgewood Arsenal, Edgewood, Md., 1929-32; Physiologist, Exp. Research Labs., Burroughs Wellcome Co., Tuckahoe, N. Y.

Hodgson, John Sprague
Ph.B., Brown, 1911; M.D., Harv., 1917; Surg. House Pupil, M. G. H., 1915-16; Res. Surg., *ibid.,* 1916; *Surg. H. O., P. B. B. H., Nov. 1, 1916-March 1, 1917; Asst. Res. Surg., ibid., March 1-June 22, 1917;* 1st Lieut., M. C., U. S. Army, 1917-19; Typhus Work in Macedonia, 1919; Res. Surg., M. G. H., 1920; Second in Neurol. Surg., M. G. H.; Asst. Visit. Surg., *ibid.*

Hoen, Thomas I.
A.B., Johns Hopkins, 1924; M.D., *ibid.,* 1928; Fellow in Surg., *ibid.; Surg. H. O., P. B. B. H., April 1, 1929-Aug. 1, 1930; Asst. Res., Surg., ibid., Oct. 1, 1930-Sept. 7, 1931;* Res., Neuro-Surg., Royal Victoria Hosp.; Neuro-Surg., St. Luke's Hosp., Montreal.

Holman, Emile
A.B., Stanford Univ., 1911; Univ. of Oxford, 1916; Med. Stud., Oxford Univ., Royal College of Surgeons, Edinburgh, Rotunda Hosp., Dublin, National Hosp., London, 1914-17; M.D., Johns Hopkins, 1918; Res. Med. Officer, Children's Hosp. Sch., 1918-19; Asst. Res. Surg., J. H. H., 1919-21; Res. Surg., *ibid.,* 1921-23; Instr. in Surg., J. H. M. S., 1920-23; *Asst. Res. Surg., P. B. B. H., July 15-Sept. 1, 1923; Res. Surg., ibid., Sept. 1, 1923-July 1, 1924;* Austin Teach. Fellow, Harv., 1923-24; Attend. Surg., Lakeside Hosp. and Asst. Prof. of Surg., Western Reserve Univ., Cleveland, Ohio, July, 1924-Dec., 1925; Assoc. Prof. Surg., Stanford Univ. Med. Sch., 1925-26; Attend. Surg., Stanford Univ. Hosp., San Francisco; Prof.

of Surg., Exec. Head, Dept. of Surg., Stanford Univ. Med. School; Visit. Surg., Peiping Union Med. Coll., Peiping, China, Sept.-Dec., 1930.

HOUCK, GEORGE H.
A.B., Univ. of Oregon, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., Nov. 1, 1927-March, 1929;* Asst. Res. in Med., Lane Hospital and Stanford Univ. Med. Sch., 1929-30; Visit. Phys. in charge of Med. O. P. D., Univ. of Calif. Hosp.; Asst., Dept. of Med., Univ. of Calif. Med. Sch., San Francisco, Calif., 1930-31; Jr. Visit. Phys., Los Angeles General Hosp.; Assoc. Staff, St. Vincent's Hosp., Los Angeles, 1931-32; Exec. Staff, *ibid.;* Instr., Dept. of Med., Univ. of Southern Calif., Los Angeles, Calif.

HOUSTON, JR., DAVID WALKER
A.B., Princeton, 1912; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., July 1, 1916-Nov. 1, 1917; Asst. Res. Surg., ibid., Nov. 1, 1917-Feb. 8, 1918;* 1st Lieut., M. C., U. S. Army, 1918-19; Attend. Surg., Samaritan Hosp., Troy, New York; in practice, Troy, New York.

HOWARD, HERBERT BURR
A.B., Harv., 1881; M.D., *ibid.,* 1884; Asst. Phys., State Infirmary, Tewksbury, Massachusetts, 1884-85; in practice, Idaho Springs, Colorado, 1885-87; Asst. Phys., State Infirm., 1887-91; Supt., *ibid.,* 1891-97; Res. Phys., M. G. H., 1897-1908; *Supt., P. B. B. H., May 1, 1908-May 1, 1919 (retired—age limit)*; Mem., Mass. State Bd. of Insanity, 1898-1913 (Chairman, 1908-13); Pres., American Hosp. Assoc., 1909-10; Trustee, State Colony for the Insane, Gardner, Massachusetts. *Died March 6, 1923.*

HUDSON, RICHARD T.
B.S., Univ. of Louisville, 1920; M.D., *ibid.,* 1924; 1 year rotating interneship, Louisville City Hosp.; Asst. Res. Surg., Louisville City Hosp.; *H. O., Roentgenology, P. B. B. H., Aug. 1-Oct. 12, 1926;* Gen. Practice, Oldham Co., Ky., 1926-28; Clin. Asst., Orthopedic Surg., Louisville City Hosp., 1928-31; Member of Staff at Following Hospitals: Louisville City, Kentucky Baptist, St. Joseph's, Norton Mem. Infirm., Crippled Children's, Masonic Widows and Orphans Home; Member, Professional Advisory Comm., Kentucky Crippled Children's Commission; Res., Orthopedic Surg., Hosp. for Relief of Ruptured and Crippled, N. Y.; in practice, Louisville, Ky.

HUGGINS, HARRISON D.
Univ. of Oregon Med. School, 2 yrs.; M.D., Harv., 1926; Substitute H. O., House of Good Samaritan; *Med. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928;* 6 mos. post-grad. work, Vienna, Austria; in practice, Portland, Ore.

HUMISTON, HOMER W.
B.S., Univ. of Ill., 1923; M.D., Harv., 1925; *Med. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926;* Fellow in Surg., Mayo Clin.,

Rochester, Minn., Nov. 1, 1926-April 1, 1929; in practice, Oak Park, Ill.

HURWITZ, SAMUEL HAYMANN
A.B., Harv., 1907; A.M., *ibid.*, 1908; Special Stud., Univ. of Strassburg, Germany, 1909-10; Spec. Student, Inst. of Infectious Diseases, Berlin, Germany, summer of 1911; M.D., Johns Hopkins. 1912; Res. H. O., J. H. H., 1912-13; *Surg. H. O., P. B. B. H., Nov. 1, 1913-March 1, 1915;* Instr. in Research Med., Univ. of Calif., 1915-17; Asst. Clin. Prof. of Med., *ibid.*, 1917-26; Assoc. Clin. Prof. of Med., Stanford Univ. Med. School.

INGRAHAM, FRANC DOUGLAS
A.B., Harv., 1922; M.D., *ibid.*, 1925; *Surg. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926;* Fellow in Surg., Johns Hopkins Univ., Nov. 1, 1926-Sept. 1, 1927; *Asst. Res. Surg., P. B. B. H., Sept., 1927-Sept., 1928; Res. Surg., ibid., Sept.-Oct., 1928; P. B. B. H. Traveling Fellow in Surg., 1928;* Asst. Neurol. Surg., Children's Hosp., Boston; Asst. in Surg., Harv.

JACK, EDWIN EVERETT
A.B., Harv., 1884; M.D., *ibid.*, 1887; *Act. Consult. Ophthalmologist, P. B. B. H.;* Consult. Ophthalmologist, Mass. Eye and Ear Infirm.; in practice, Boston.

JACK, WILLIAM DAVID
A.B., Creighton, 1908; Grad. Stud., Univ. of Chicago, 1909-10; M.D., Johns Hopkins, 1914; *Surg. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915;* Capt. and Asst. Surg., 2nd Harv. Unit, B. E. F., France, 1915-16; Asst. Res. Urologist, J. H. H., 1916-17; Capt., M. C., U. S. Army and Consult. Urologist, A. E. F., 1917-19; Asst. Res. Surg., and Res. Urol., J. H. H., 1919-21; in practice, Chicago, Illinois.

JACKSON, HOWARD BURR
A.B., Harv., 1915; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., March 15, 1919-April 1, 1920;* H. O., Surg. and Obstet. Services, Mass. Homœpathic Hosp., 1920; Asst. Phys. to Out-Patients, M. G. H.; Phys., Boston Dispensary; in practice, Jamaica Plain, Massachusetts.

JACKSON, HOWARD L.
M.D., Tufts, 1918; Interne, Springfield Hosp.; in practice, Springfield, Mass.; *H. O., Roent., P. B. B. H., Oct. 1, 1929-July 1, 1930.*

JACOBSEN, VICTOR CLARENCE
B.S., Univ. of Wis., 1915; M.D., Harv., 1917; *Med. H. O., P. B. B. H., July 18, 1917-July 1, 1918;* 1st Lieut., M. C., U. S. Army, 1918; *Pathol. H. O., P. B. B. H., Jan. 1-July 1, 1919; Res. Pathol., ibid., July 1-Oct. 1, 1919;* Asst. Prof. of Pathol., Univ. of Wisconsin, 1919-20; *Res. Pathol., P. B. B. H., July 1, 1920-Sept. 1, 1921;* Instr. in Pathol., Harv., 1920-21; Pathol., Albany Hosp.

and Troy Hosp.; Cyrus Strong Merrill Prof. of Pathol., Union Univ., Albany, N. Y.; Member, National Research Council, Med. Div., 1930; Research, Pasteur Inst., Paris, under Prof. C. Levaditi, 1931.

JACOBSON, CONRAD
B.S., Beloit, 1900; Grad. Stud., 3 summer qrs., Univ. of Chicago; Asst. Prof. of Chem. and Bacteriol., Armour Inst. of Tech., 1903-05; Research Asst. in Pathol., Univ. of Chicago, 1907-08; M.D., Johns Hopkins, 1911; Asst. in Surg., Hunterian Lab., *ibid.*, 1911-12; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1912-Sept. 1, 1915; Res. Surg., ibid., Sept. 1, 1915-July 1, 1920;* Asst. in Surg., Harv.; Assoc. Prof. of Surg., Univ. of Minn. Med. Sch., 1920-22; in practice, Seattle, Washington.

JAMESON, CHARLES HAROLD
A.B., Harv., 1916; M.D., *ibid.*, 1919; *Surg. H. O., P. B. B. H., June 15, 1919-Nov. 1, 1920;* Free Hosp. for Women, Brookline, 1920-21; *Asst. Res. Surg., P. B. B. H., Feb. 14-June 15, 1921; Asst. Res. Surg., ibid., Sept. 15, 1921-June 21, 1922;* in practice, Rockland, Maine.

JANNEY, JAMES CRAIK
A.B., Harv., 1911; M.D., *ibid.*, 1915; *Surg. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916;* Capt., M. C., U. S. Army; H. O., Boston Lying-In Hosp., 1923; Fellow, Am. Coll. Surgs., 1926; First Asst. Obstetrician, Mass. Memorial Hosp.; Asst. Prof. Gynaecology and Instr. in Obstetrics, Boston Univ. Sch. of Med.; in practice, Boston.

JOELSON, JAMES J.
M.D., Columbia, 1920; Surg. Interne, Presbyterian Hosp., New York, 1920-22; *Asst. Res. Surg., P. B. B. H., July 15, 1922-July 26, 1923;* Asst. Res. Surg., New Haven Hosp., and Instr. in Surg., Yale, 1923-24; Asst. Res. Surg. (G. U. Surg.) Lakeside Hosp., 1924-25; Demonstr. in G. U. Surg., Western Reserve Univ., Cleveland, Ohio, 1924-25; Instr. in G. U. Surg., *ibid.*, 1925-27; Clin. Instr., G. U. Surg., *ibid.*, 1927-28; Asst. G. U. Surg., Lakeside Hosp., 1926-28; Assoc. G. U. Surg., *ibid.;* Asst. Prof. G. U. Surg., Western Reserve Univ.

JONES, MERRITT LACOUNT
S.B., Univ. of Wis., 1912; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916; Asst. Res. Surg., ibid., Nov. 1, 1916-March 1, 1917;* Capt., M. C., U. S. Army, 1917-19; in practice, Wausau, Wisconsin.

JONES, WILFRED GRANT
B.S., College of Wooster, Wooster, Ohio, 1921; M.D., Harv., 1924; *Med. H. O., P. B. B. H., May 15, 1924-March 1, 1925;* Missionary work, Miraj, India.

Kazanjian, Varaztad H.
D.M.D., Harv., 1905; M.D., *ibid.*, 1921; F.A.C.S., 1928; Mem. Harv. Unit, B. E. F., 1915-16; Surg. Specialist for Wounds of Jaws and Face, B. E. F., 1916-19; C. M. G.; *Dental Surg., P. B. B. H., Jan. 22, 1920-Dec., 1922;* Prof. of Clin. Oral Surg., Harv.; Visit. Surg., Oral and plastic Surg., B. C. H.; Surg. for Plastic Operations, Mass. Eye and Ear Infirm.; Consult. Oral Surg., Camb. Hosp.; Mem. of Staff, Consult. Surgeons, Newport Hosp., Newport, Rhode Island; Attend. Specialist, U. S. P. H. S.; Asst. Laryngologist, Huntington Mem. Hosp.; Consult. in Plastic Surg., M. G. H.; Consult. in Oral Surg., Palmer Mem. Hosp.; Member of Staff, N. E. Deaconess Hosp.; Member, Consult. Staff, Beth Israel Hosp.; in practice, Boston.

Kebabjian, Hrant Setrag
A.B., Anatolia Coll. (Armenia), 1913; M.D., Harv., 1918; Admitting Phys., Babies' Ward, Post Grad. Hosp., New York, 1918; *Surg. H. O., P. B. B. H., Nov. 15, 1918-March 1, 1920;* City Phys., Buffalo, New York, 1920-21; Director, Comm. on Hosps. in Cilicia, 1921-22; Asst. Res., Long Island Hosp., Boston Harbor, 1922-26; in practice, Boston.

Keegan, John Jay
A.B., Univ. of Neb., 1912; A.M., *ibid.*, 1914; M.D., *ibid.*, 1915; Instr. in Anat., *ibid.*, 1915-17; *Pathol. H. O., P. B. B. H., June 15, 1917-Dec. 15, 1917;* Lieut., M. C., U. S. Navy, 1917-19; *Surg. H. O., P. B. B. H., Aug. 13, 1919-Nov. 1, 1920;* Asst. Prof. of Pathol., Univ. of Neb., 1920-23; Prof. Clin. Pathol., Director of Clinics, Sec. of the Faculty, *ibid.*, 1923; Neuro-surg., Univ. Hosp.; Dean, Coll. of Med., Univ. of Nebraska, 1925-29; Prof. Neuro-Surg., *ibid.;* in practice, Omaha, Nebraska.

Kennedy, W. Roland
B.Sc., McGill, 1922; M.D., C.M., *ibid.*, 1925; Interne, rotating service, Montreal Gen. Hosp., 1925-26; Pathol. service, *ibid.*, 1926; Sr. in Med., *ibid.*, 1927-28; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1928-July 1, 1929;* in practice, Montreal, P. Q., Canada.

Keyser, Linwood Dickens
B.A., Virginia, 1914; M.D., Johns Hopkins, 1918; F.A.C.S., 1928; H. O., J. H. H., 1918-19; *Asst. Res. Surg., P. B. B. H., July 1-Nov. 1, 1919;* Res. Surg., New York Post Grad. Hosp., New York City, 1920; Fellow, Mayo Foundation, Rochester, Minnesota, 1920-23; M.S., Mayo Foundation; Univ. of Minn Grad. Sch. in Med., 1921; Attend. Surg. and Surg. Pathol., Roanoke Hosp., Roanoke, Va.

King, Donald Storrs
A.B., Oberlin, 1912; M.D., Harv., 1918; H. O., Orthopedic Serv., Children's Hosp.; 1st Lieut., M. C., U. S. Army, 1918-19; Med. H. O., M. G. H., 1919-21; *Assoc. in Pathol., P. B. B. H., May 24,*

1921-May 24, 1922; Fellow in Med., Harv., 1923; Asst. in Med., *ibid.;* Asst. in Med., M. G. H.; Asst. Phys., M. G. H.; Phys., Channing Home; Consult. Phys., Mass. Eye and Ear Infirm.; in practice, Boston.

KING, WILLIAM ROBERT
B.S., Univ. of Minn., 1913; M.D., Harv., 1917; *Med. H. O., P. B. B. H., July 1, 1917-Feb. 1, 1918; Asst. Res. Phys., ibid., Feb. 1-Oct. 24, 1918;* in practice, Minneapolis, Minnesota.

KINNEY, KENNETH K.
M.D., Univ. of Iowa, 1921; Surg. Interne, 1 year, Seattle Gen. Hosp.; private practice, 3 years; *H. O., X-ray Dept., P. B. B. H., Oct. 1, 1925-April 1, 1926; Asst. Res. Roent., April 1-Oct. 1, 1926;* in practice, Willimantic, Conn.

KINSMAN, JAMES MURRAY
B.A., Mt. Allison Univ., Sackville, N. B., 1918; M.D., C.M., McGill Univ., 1922; Pathol. Interne, Royal Victoria Hosp., 1922-23; Demonstr. in Pathol., McGill Univ., 1922-23; *Med. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924;* Asst. Res. Med., New Haven Hosp., New Haven, Conn.; Asst. Prof. of Med., Univ. of Louisville; in practice, Louisville, Ky.

KIRK, ESLEY J.
M.D., Univ. of Nebraska, 1926; H. O., Douglas Co. Hosp., Omaha, Nebraska, 1926-27; *Asst. Res. Phys., P. B. B. H., Aug., 1927-Aug., 1928; Jr. Assoc. in Med., ibid., Aug., 1928-July, 1929;* Instr. in Med., Univ. of Nebraska Med. Coll.; in practice, Omaha, Neb.

KIRKWOOD, ALLAN STEWART
M.D., Univ. and Bellevue Hosp. Med. Coll., New York, 1913; *Assoc. in Med., P. B. B. H., Nov. 1-Dec. 31, 1917;* Major, M. C., U. S. Army; Visit. Neuro-Psychiatrist, Mountainside Hosp., Montclair, N. J.; Consult. Phys., Children's Hosp., Montclair, New Jersey; in practice, Montclair, N. J.

KLUMPP, THEODORE G.
B.S., Princeton, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., March 1, 1929-July 1, 1930;* New Haven Hosp., New Haven, Conn.

KOEFOD, HILMAR OLAF
B.S., Beloit, 1911; M.D., Harv., 1916; Moseley Travelling Fellowship, *ibid.*, in Europe, summer of 1916; *Med. H. O., P. B. B. H., Nov. 1, 1916-Nov. 1, 1917;* 1st Lieut., M. C., U. S. Army, 1917-18; Chief of Clin. at Mem. Lab. and Clin., Santa Barbara, Cal.; Asst. in Med., Med. Sch., Univ. of Cal.; Asst. to Prof. H. C. Moffit in his private work; Chief of Med. Dept., Santa Barbara Clin.; Attend. Phys., Cottage Hosp., Santa Barbara, Cal.; in practice, Santa Barbara, California.

Kohn, Lawrence A.
A.B., Williams, 1914; work in Bacteriol. with Dr. Park, New York, 1914-17; work in Bacteriol. with army in France, 1917-19; 1st Lieut., San. Corps, 1918-19; M.D., Johns Hopkins, 1923; Med. Interne, *ibid.; Asst. Res. Phys., P. B. B. H., Sept. 15, 1924-Sept. 1, 1925;* Instr. in Med., Univ. of Rochester; Res. Phys., Strong Mem. Hosp., Rochester, N. Y., 1925-27; Asst. Prof. Med., Univ. of Rochester; Asst. Phys., Strong Mem. Hosp.; Assoc. Staff, Rochester Gen. Hosp.; in practice, Rochester, N. Y.

Kreutzmann, Henry Adolph Robert
M.D., Univ. of Pa., 1916; *Surg. H. O., P. B. B. H., March 1, 1917-Feb. 4, 1918;* Lieut., M. C., U. S. Army; Urologist for N. W. P. R. R.; Chief Urol., Chinese Hosp., San Francisco; Instr. in Urol., Stanford Univ.; in practice, San Francisco, California.

Ladd, William Sargent
B.S., Amherst, 1910; M.D., Columbia, 1915; *Med. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1917;* Asst. Phys., Presbyterian Hosp., New York, and Instr. in Med., Columbia, 1918-19; 1st Lieut., M. C., U. S. Army; Asst. in Med., J. H. H., and Instr. in Med., Johns Hopkins, 1919-21; Instr. in Med., Columbia, 1921-24; Assoc. in Med., *ibid.;* Asst. Phys., Presbyterian Hosp., New York, 1924-31; Assoc. Dean and Asst. Prof. Med., Cornell Univ. Med. Coll.

Lamson, Paul Dudley
A.B., Harv., 1905; M.D., *ibid.,* 1911; Med. House Pupil, M. G. H., 1909-10; Lect. Asst. in Pharm., Univ. of Wurzberg, Germany, 1912-13; Sheldon Travelling Fellow, Harv., 1911-13; *Asst. Res. Phys., P. B. B. H., Oct. 1, 1913-Oct. 15, 1914;* Asst. in Exp. Therapeutics, Johns Hopkins, 1914-15; Assoc. in Pharmacology, *ibid.,* 1916-20; Assoc. Prof. Pharmacology, *ibid.,* 1921-25; Prof. Pharmacology, Vanderbilt Univ. Sch. of Med.

Lanman, Thomas Hinckley
A.B., Harv., 1912; M.D., *ibid.,* 1916; *Assoc. in Urol., P. B. B. H., March 22, 1920-June 26, 1922;* Asst. Surg., Harv.; Assoc. Visit. Surg., Children's Hosp.; Visit. Surg., Children's Serv., Cambridge Hosp.; in practice, Boston.

Lawrence, John H.
M.D., Harv., 1930; *Surg. H. O., P. B. B. H., Apr. 1, 1930-Aug. 1, 1931;* Asst. Res. and Asst. in Med., Univ. of Rochester Med. Sch., 1931-32; Asst. Res. in Med., New Haven Hosp.

Legge, Robert F.
M.D., C.M., McGill, 1930; *Surg. H. O., P. B. B. H., Jan. 1, 1931-Apr. 1, 1931.*

Lehman, Edwin Partridge
A.B., Williams, 1910; M.D., Harv., 1914; *Surg. H. O., P. B. B. H., July 1, 1914-July 1, 1915;* Asst. Res. Surg., Barnes Hosp., St. Louis,

Missouri, 1915-16; Asst. in Surg., Washington Univ., 1916-20; 1st Lieut., M. C., U. S. Army, 1917-19; Res. Surg., Barnes Hosp., St. Louis, 1919-20; Instr. in Surg., Instr., Asst. Prof. and Assoc. Prof. Clin. Surg., Washington Univ., 1920-28; Prof. of Surg. and Gyn. and Director, Surg. Dept., Univ. of Va.

Lewis, Edwin Ray
M.D., Boston Univ., 1901; Asst. Surg., Clinton Hosp., 1907; Asst. Supt., Mass. Homœopathic Hosp., 1909; Act. Supt., *ibid.*, 1916; Supt., Hahnemann Hosp., Rochester, New York, 1916; Supt., Flower Hosp., 1919-20; Capt., M. C., U. S. Army, 1918-19; *Second Asst. Supt., P. B. B. H., April 11, 1921-Oct. 1, 1923;* Supt., Easton Hosp., Easton, Pennsylvania, 1923-26; Supt., Burbank Hosp., Fitchburg.

Lewis, Jr., William H.
A.B., Harv., 1922; M.D., *ibid.*, 1926; Interne, Allegheny Gen. Hosp., Pittsburgh, Pa., July 1, 1926-July 1, 1927; *Med. H. O., P. B. B. H., July 1, 1927-March 1, 1928;* Neurol. H. O., B. C. H., 1928; Res. Pathol., Palmer Mem. Hosp., 1928-29; Res. in Pathol., Huntington Mem. Hosp.; Asst. Pathol., Pondville Hosp.; Asst. in Pathol., Harv., 1929-30; Student at Allgemeines Krankenhaus Eppendorf, Hamburg, 1930-31, and Hôpital Lariboisière, Paris, 1931; in practice, Donora, Pa.

Lieb, Clarence William
A.B., Colorado, 1908; A.M., *ibid.*, 1909; M.D., Harv., 1914; *Pathol. H. O., P. B. B. H., April 1-June 6, 1914* (*resigned*); Med. Director, "The Glen Springs," Watkins, New York, 1914-17 (resigned); in practice, Gastro-enterology, New York.

Liebman, Charles
Ph.B., Yale, 1917; M.D., Harv., 1921; X-ray Dept., Base Hosp., Camp Devens; X-ray Dept., Mass. Eye and Ear Inf.; X-ray Dept., New Haven Hosp.; *X-ray H. O., P. B. B. H., June 1, 1921-July 1, 1922;* Roentgenologist, Children's Hosp., Boston, 1922-26; Asst. Roent., Boston Disp. and Beth Isreal Hosp., Boston.

Locke, Jr., Charles Edward
A.B., M.S., Univ. of Cal., 1916; M.D., *ibid.*, 1919; S.D. (*en Chirurgie*), Univ. of Brussels, 1922; Med. and Surg. H. O., Univ. of Cal. Hosp.; *Asst. Res. Surg., P. B. B. H., June 15, 1920-June 1, 1921;* Asst. on Visit. Surg. Staff, Dr. Depage's Service, St. Pierre Hosp., Brussels; Asst. Etranger, Prof. Pierre Marie's Serv., Salpétrière, Paris, 1921-22; Fellow, C.R.B., Educational Foundation, 1921-22; Asst. Dept. of Surg., Univ. of Cal. Med. Sch.; Fellow, National Research Council, 1922-23; Full-time Instr. in Surg., Univ. of Cal.; Staff, Hooper Research Foundation, 1923-24; Neurol. Surg., Cleveland Clinic. *Died, Cleveland Clinic disaster, May 15, 1929.*

LOURIA, HENRY WALTER

A.B., Columbia, 1916; M.D., *ibid.*, 1919; Surg. H. O., Presbyterian Hosp., New York, 1919-20; *Med. H. O., P. B. B. H., July 1, 1920-Oct. 1, 1921;* Stud., M. I. T., 1921; Med. Interne, J. H. H., 1921-22; Asst. Surg., Brooklyn Jewish Hosp.; Instr. in Surg., Coll. of Phys. and Surg.; Vol. Asst., Surg. Serv. of Prof. H. Von Haberer, Graz, Austria, Oct., 1927-Feb., 1928; Assoc. Surg., Brooklyn Jewish Hosp.; Asst. Surg., King's Co. Hosp.; in practice, Brooklyn, N. Y.

LUGER, ALFRED

M.D., Univ. of Vienna; Demonstr., Histological Inst., Univ. of Vienna, May, 1909-May, 1911; Klinik Neusser, Vienna, May, 1911-Sept., 1911; Director, Roentgen Lab., Klinik Neusser, Vienna, Sept., 1911-Dec., 1912; *Roentgenologist, P. B. B. H., Jan. 1, 1913-June 1, 1914* (granted leave of absence from June 1, 1914-Dec. 14, 1915; Asst. in Roentgenology and Asst. in Med., H. M. S., 1914-15; Army Phys., 1915-18; Asst. Bacteriol. Inst., Prof. Dorr, Vienna, 1918-19; Asst. at II. Med. Clin. (Prof. Ortner), Vienna, 1919-29; Privatdozent f. Innere Medizin, Univ. of Vienna; Ausserordenlich Univ. Prof., *ibid.;* Director of II. Med. Div., Kaiserin Elisebeth Hosp., Vienna.

LYLE, EVELINE BURTON

B.A., Mt. Holyoke Coll., 1906; M.D., Tufts Coll. Med. Sch., 1913; *Act. Assoc. in Med., P. B. B. H., Nov. 1-Dec. 31, 1917;* Visit. Phys. and Obstetrician, N. E. Hosp. for Women and Children; Med. Examiner for Winsor School, Milton Academy Girls' School, Brookline High School Girls, Boston University School of practical Arts, Penn. Mutual Life Insurance Co., John Hancock Life Ins. Co., United Life and Accident Insurance Co.; in practice, Boston.

LYNCH, JR., JAMES JOSEPH

B.S., Notre Dame Univ., 1915; M.D., Harv., 1919; H.O., Boston Lying-In Hosp., 1919; *Med. H. O., P. B. B. H., July 1, 1919-July 1, 1920;* H. O., Cambridge City Hosp., 1920-21; Jr. Visit. Obstetrician, St. Elizabeth's Hosp.; Jr. Asst. Surg., Boston Disp.; in practice, Boston.

LYON, DON DEE

S.B., Wash. Univ., 1914; M.D., Harv., 1920; H. O., Huntington Hosp., 1919-20; Interne, Bridgeport Hosp., 1920-21; *Surg. H. O., P. B. B. H., March 1, 1921-July 1, 1922;* Res. Phys., Blodgett Mem. Hosp., Grand Rapids, Mich.; Int. Med., Grand Rapids Clin., 1924-25; in practice, Olympia, Washington.

MACMILLAN, STUART FORBES

B.S., Union College, Schenectady, New York, 1920; M.D., Albany Med. College, 1925; Interne, Albany Hosp., 1925-26; *Pathol. H. O., P. B. B. H., July 1, 1926-July 1, 1927;* Asst. Surg. and Surg. to O. P. D., Ellis Hosp., Schenectady; in practice, Schenectady, N. Y.

MALLORY, TRACY BURR
M.D., Harv., 1921; *Med. H. O., P. B. B. H., March 1, 1922-July 1, 1923;* Instr. in Bacteriol., Harv., 1924-26; Instr. in Path., *ibid.;* Pathol., M.G.H.

MANN, ALBERT HOWELL
M. D., Tulane Univ., 1926; *Med. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927;* in practice, Texarkana, Ark.

MARINUS, CARLETON J.
B.Sc., Syracuse, 1915; M.Sc., *ibid.,* 1917; M.D., Univ. of Mich., 1921; *Med. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923;* in practice, Detroit, Michigan.

MARKHAM, BLACKWELL
A.B., Univ. of N. C., 1917; M.A., *ibid.,* 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923;* Res. Surg., Fifth Ave., Hosp., 1923-24; Assoc. Attend. Surg., Watts Hosp.; Instr. in Surg., Duke Univ.; in practice, Durham, N. C.

MARLOW, JR., FRANK WILLIAM
B.S., Hamilton, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July, 1927-Nov., 1928;* Asst. Res., New Haven Hosp.; Asst. in Med., Yale Univ., Nov., 1928-July, 1929; Asst. in Med., Harv.; Asst. in Med., M. G. H.; Asst. in Med., Faulkner Hosp.; in practice, Brookline, Mass.

MARLOW, SEARLE BISSET
A.B., Harv., 1912; Stud., Harv., 1 year; M.D., Syracuse, 1916; *Pathol. H. O., P. B. B. H., July 1, 1916-June 11, 1917;* Capt., M. C., U. S. Army, 1918-19; House Surg., Herman Knapp Hosp., New York, 1920-21; Asst. Prof. of Ophthal., Syracuse Univ.; Ophthalmologist, Syracuse Free Disp., St. Joseph's Hosp., General Hosp., and Syracuse Mem. Hosp.; in practice, Syracuse, New York.

MARTIN, PAUL
S.B., Brussels, 1911; M.D., *ibid.,* 1920; Med. Interne, Hosp. St. Pierre, Brussels, 1919-20; Surg. Interne, New Haven Hosp., 1920-21; *Assoc. in Surg., P. B. B. H., Sept. 1, 1921-March 1, 1922; Asst. Res. Surg., ibid., March 1-Nov. 1, 1922;* Asst. in Surg., Brussels Univ. Hosp.; in practice, Brussels, Belgium; Arthur Tracy Cabot Fellow, Harv., 1929-30; *Assoc. in Surg., P. B. B. H., Jan.-April, 1930.*

MARVIN, FRANK WILLIAM
A.B., Harv., 1910; M.D., *ibid.,* 1914; House Pupil, M. G. H., 1914-15; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1916;* Visit. Anesthetist, B. C. H., Newton Hosp., Boston Psychopathic Hosp.; in practice, Boston.

MARVIN, HAROLD MYERS
A.B., Davidson Coll., 1914; M.D., Harv., 1918; *Med. H. O., P. B. B. H., Feb. 13, 1918-Feb. 9, 1919;* Dist. Phys. with Near East Re-

lief, Alexandropol, Armenia, 1919-20; Asst. in Med., Harv.; Asst. in Med., M. G. H., 1920-21; Instr. in Med., Yale, 1921-23; Asst. Prof. of Med., 1923-28; Fellow, John Simon Guggenheim Memorial Foundation, 1926-27 (in laboratory of Sir Thomas Lewis, Univ. of Coll. Hosp. Med. School, London); Asst. Prof. Clin. Med., Yale.

MASON, B. HENRY
M.D., Bowdoin, 1907; Gen. Internship, Maine Gen. Hosp., 1907-08; Asst. Phys., State Asylum, Worcester, Aug., 1908-Nov., 1913; in practice, Portland, Maine, 1913-14; Asst. Phys., Worcester State Hosp., Feb., 1914-May, 1914; Asst. Supt., *ibid.*, May, 1914-June 18, 1918; Act. Supt., *ibid.*, June 18, 1918-April 1, 1921; Neuro-Psychiatrist, Advisory Board A and B, Worcester, Massachusetts, during draft; Asst. Director, Psychopathic Hosp., Ann Arbor, Michigan, April, 1921-Jan., 1923; Neuro-Psychiatrist, U. S. V. B.; Instr. in Psychiatry, Univ. of Mich. Med. School, 1921-23; *First Asst. Supt., P. B. B. H., Jan. 8, 1923-Dec. 1, 1927;* Pres., Conn. Hosp. Assoc., 1929-31; Supt., Waterbury Hosp., Waterbury, Conn.

MASSEE, JOSEPH C.
B.S., John B. Stetson Univ., 1922; M.D., Harv., 1925; *Med. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927;* Res. Phys., Federal Prison, Atlanta, 1927-28; Assoc. Editor, Journal of the Medical Assoc. of Georgia; Instr. in Med., Emory Univ.; Assoc. Visit. Phys., Grady Hosp., Emory Univ. Hosp., and Georgia Baptist Hosp.; in practice, Atlanta, Ga.

MAUPIN, JR., JAMES L.
A.B., Univ. of Calif., 1921; M.D., Stanford, 1926; Interne, Lane and Stanford Hosp., 1925-27; in practice, Fresno, Calif., 1927-28; Member, Fresno Co. Gen. Hosp. Staff, 1927-28; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1928-March 1, 1929;* Surg. Staff, Fresno Gen. Hosp.

MCCANN, WILLIAM SHARP
A.B., Ohio State Univ., 1911; M.D., Cornell, 1915; Asst. Res. Phys., Gen. Mem. Hosp., New York, 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-Nov. 1, 1916 (resigned)*; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv.; Capt., M. C., U. S. Army; Instr. in Med., Cornell; Research Fellow, Russell Sage Inst. of Pathol.; Adjunct Visit. Phys., Bellevue Hosp., New York; Consult. Phys., N. Y. State Reconstruction Hosp.; Assoc. Phys., J. H. H., Baltimore, Md.; Assoc. in Med., Johns Hopkins; Assoc. Prof. Med., *ibid.;* Dewey Prof. of Med., Univ. of Rochester, Rochester, N. Y.

MCCARTHY, PATRICK THOMAS
B.S., Univ. of Chicago, 1914; M.D., Rush Med. Coll., 1917; *Surg. H. O., P. B. B. H., Dec. 15, 1917-Oct. 1, 1918; Asst. Res. Surg., ibid., Oct. 1, 1918-Feb. 9, 1919;* Relief Comm., Near East, Armenia,

1919-20; Post Grad. Study in Europe, 1920; Surg., Western Montana Clin., Missoula; in practice, Missoula, Montana.

McCarty, Elba Denton
M.D., Univ. of Mich., 1903; Interne, 2 years, St. Mary's Hosp., Saginaw, E. S., Mich.; Gen. Practice, Merrill, Mich., 1905-09; Priest River, Idaho, 1909-17; *Roentgenologist, P. B. B. H., July 1, 1918-Oct. 14, 1919;* in practice, Tacoma, Washington.

McClure, Charles Walter
A.B., Ohio State Univ., 1906; M.D., Starling Med. Coll., Ohio, 1910; Med. H. O., St. Francis Hosp., Columbus, Ohio, 1910-11; Asst. in Clin. Med., Starling Med. Coll., 1911-12; Asst. in Med., Univ. of Iowa Med. Sch., 1912-15; Grad. Stud. in Med., Harv., 1915-16; *Asst. Res. Phys., P. B. B. H., July 1-Nov. 1, 1916;* Alumni Asst. in Med., Harv.; *Res. Phys., P. B. B. H., June 7-July 6, 1917;* Phys.-in-Chief, St. Luke's Hosp., South Bethlehem, Pa., 1917-18; Capt., M. C., U. S. Army, 1918; *Assoc. in Med., P. B. B. H., Feb. 13, 1919-Sept. 1, 1921;* Visit. Phys., Mass. Memorial Hospitals; Gastroenterologist, O. P. D., *ibid.;* Member of Sr. Staff in charge of the Div. of Gastro-Intestinal Research, Evans Memorial for Med. Research; Member of staff, B. C. H.; Asst. Prof. of Med., Boston Univ. Sch. of Med.; in practice, Boston.

McEachern, Thomas H.
B.A., Univ. of Mich., 1925; M.D., *ibid.,* 1927; Vol. Asst., Pathol. Dept., Univ. of Mich., July-Nov., 1927; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929;* Pediatric H. O., N. Y. Nursery and Child's Hosp., 1929-30; Asst. Res. Pediatrician, *ibid.,* April 1-July 1, 1930; Res. Pediatrician, *ibid.,* 1930-31; Asst. in Pediatrics, Cornell Univ.; Asst. Attend. Pediatrician, N. Y. Hosp.

McGrath, Robert F.
B.S., Northwestern, 1924; M.D., *ibid.,* 1928; Interne, St. Luke's Hosp., Chicago; *Jr. Assoc. in Med., P. B. B. H., Sept. 15, 1929-May 1, 1930; Asst. Res. Phys., ibid., May 1, 1930-Sept. 1, 1930.*

McKean, Richard M.
A.B., Univ. of Mich., 1916; M.D., *ibid.,* 1919; *Med. H. O., P. B. B. H., Dec. 15, 1919-March 1, 1921;* H. O., Infants' Hosp., Boston, 1921; Jr. Phys., Detroit Receiving Hosp., 1921-22; Assoc., *ibid.;* Instr. in Med., Detroit Coll. of Med. and Surg.; Asst. Prof. of Med., *ibid.;* Attend. Phys. and Director of Metabolic Unit, Detroit Receiving Hosp.; Jr. Phys., Harper Hosp.; Consult. in Metab., Herman Kiefer Hosp.; in practice, Detroit, Mich.

McKenzie, Kenneth G.
M.B., Toronto; M.D., *ibid.,* 1914; Interne, Toronto Gen. Hosp., 1914; Capt., Imp. Army M. C., 1914-19; Instr. in Anat., Univ. of Toronto, 1919 (on leave of absence to work with Dr. Cushing under the Mickle Fellowship of Toronto Univ.); *Asst. Res. Surg., P. B.*

B. H., Nov. 1, 1922-Nov. 1, 1923; Surg. Staff, Toronto Gen. Hosp.; in practice, Toronto, Canada.

McLean, Arthur John
A.B., Reed Coll., Portland, Oregon, 1921; M.D., Johns Hopkins, 1925; *Surg. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926; Assoc. in Surg., ibid., Jan. 10-Sept. 23, 1927;* Arthur Tracy Cabot Fellow, Harv., 1926-27; *Asst. Res. Surg., P. B. B. H., Sept., 1927-June, 1929; Act. Res. Surg., ibid., June-Sept., 1929;* George Gorham Peters Traveling Fellow, 1929-30; *Res. Surg., P. B. B. H., Oct. 1, 1930-June 1, 1931;* Instr. in Surg., Univ. of Oregon Med. Sch.; Instr. in Neuropathol., *ibid;* in practice, Portland, Oregon.

McQuesten, Philip
A.B., Dart., 1911; M.D., Harv., 1915; Stud., B. C. H. (Pathol. Lab.), 1915-16; *Surg. H. O., P. B. B. H., March 1, 1916-July 1, 1917; Asst. Res. Surg., ibid., July 1-Aug. 17, 1917;* in practice, Nashua, New Hampshire.

Menard, Oliver J.
B.S., Colgate, 1922; M.D., Jefferson Med. College, 1926; Interne, Rochester General Hosp., July 1, 1926-July 1, 1927; Asst. Clin. Phys., Rome State School, July 1, 1927-Oct. 15, 1927; *Med. H. O., P. B. B. H., Nov. 1, 1927-March 1, 1929;* Asst. Res. in Med., Long Island Hosp., Nov.-July, 1929; Asst. in Med., Lahey Clinic, Boston.

Middleton, Richard
M.D., Harv., 1927; Rotating Interneship, Philadelphia; Res. Surg., Memorial Hosp., Worcester; *Asst. Res. Surg., P. B. B. H., Sept. 15, 1930-July 15, 1931;* in practice, Salt Lake City, Utah.

Millet, John Alfred Parsons
A.B., Harv., 1910; M.D., *ibid.,* 1914; *Med. H. O., P. B. B. H., Nov. 1, 1914-March 1, 1916;* Internist, New York State Inst. for the Study of Malignant Disease, Buffalo, 1916-19; Capt., M. C., U. S. Army, 1917-19; Asst. Attend. Phys., Buffalo Gen. Hosp.; Assoc. in Med., Buffalo Univ. Med. Sch., and Asst. to the Chiefs of Med. Div., Dept. of Hospitals and Dispensaries, Buffalo, New York, 1916-23; Phys., Austen Riggs Foundation, Stockbridge, Massachusetts, 1923-30; Instr. in Psychiatry, Columbia; Asst. Atten. Psychiatrist (Children) Vanderbilt Clin., 1930-32; Fellow in Psychiatry, Cornell; in practice (Psychiatry), New York City.

Milliken, Samuel Gibbs
M.D., Univ. of Texas, 1922; Sr. Instr. in Pathol., Univ. of Texas, 1922; *Surg. H. O., P. B. B. H., March 1, 1924-Feb. 1, 1925;* Asst. Prof. of Path., Univ. of Texas; Visit. Phys., Methodist Hosp. and Memorial Hosp., Houston, Texas; in practice, Houston, Texas.

Montgomery, James Blaine
A.B., Dart., 1911; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1917;* House Surg., Mass. Eye and Ear In-

firm., 1917; Grad., Army Med. Sch., 1917; 1st Lieut., M. C., U. S. Army; Major, Med. Corps, U. S. Army, Washington, D. C. *Deceased.*

MOORE, RICHMOND LAWRENCE
A.B., Univ. of Va., 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924; Asst. Res. Surg., ibid., July 1, 1924-July 1, 1925;* Asst. Res. Phys., Hosp. of the Rockefeller Inst., New York, July 1, 1925-Aug., 1927; Fellow in Surg., Presbyterian Hosp., 1928-32; Asst. Attend. Surg., *ibid.;* Instr. in Surg., Columbia Univ.; in practice, New York City.

MORRIS, LAIRD M.
M.D., Univ. of Cal., 1916; *Asst. Res. Phys., P. B. B. H., April 15, 1920-Oct. 1, 1920;* Asst. in Med., Univ. of Cal. Med. Sch., 1921-22; Instr. in Med., *ibid.,* 1923; Instr. in Med., Stanford Med. School; in practice, San Francisco, California.

MORRIS, JR., SAMUEL LESLIE
B.S., Davidson (N. C.), 1911; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., Nov. 1, 1916-Nov. 1, 1917;* 1st Lieut., M. C., U. S. Army; 1st Asst. House Surg., St. Louis Southwestern Hosp., 1919; Chief House Surg., *ibid.;* in practice, Atlanta, Georgia.

MORTON, JOHN JAMIESON
A.B., Amherst, 1907; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., March 1, 1913-July 1, 1914;* Fellow in Pathol., Rockefeller Inst., New York City, 1914-15; House Surgeon, M. G. H., 1915-16; Asst. Res. Phys., Rockefeller Inst. Hosp., New York, 1916-17; Major, M. C., U. S. Army, 1917-19; practice, Orthopedic Surg., Boston, Massachusetts; Grad. Asst., O. P. D., Children's Hosp., Boston, and Asst. Orthopedic Surg., *ibid.,* 1919-21; Asst. Prof. Surg., Yale, 1921-24; Prof. Surg., Rochester Univ. Sch. of Med. and Dentistry, Rochester, New York.

MUNTER, EDGAR J.
M.D., Univ. of Calif., 1926; Interne, Med. and Surg., Univ. Hosp., San Francisco, 1925-26; Asst. Res. in Med., *ibid.,* 1926-27; *Asst. Res. Phys., P. B. B. H., 1927-28;* Asst. in Med., Univ. of Cal. Med. Sch., 1928-31; Instr. in Med., *ibid.;* Adjunct in Med., Mt. Zion Hosp., San Francisco; in practice, San Francisco, Calif.

NELLANS, CHARLES T.
B.S., Univ. of Chicago, 1916; M.D., Rush Med. Coll., 1918; Mem. Res. Staff, Presbyterian Hosp., Chicago, 1918-19; *Med. H. O., P. B. B. H., Sept. 15, 1919-Nov. 1, 1920;* Asst. in Med., Yale, 1921; Instr. in Med., *ibid.,* and Res. Phys., New Haven Hosp., 1921-22; Instr. in Med., Emory Univ., and Asst. Visit. Phys., Wesley Mem. and Grady Hospitals, Atlanta, Ga.; in practice, Atlanta, Ga.

NICHOL, ARTHUR D.
M.D., Ohio State Univ., 1926; Interne, St. Luke's Hosp., Cleveland, 1926-28; *Asst. Res. Phys., P. B. B. H., Aug., 1928-Aug., 1929;* Demonstr. in Med., Western Reserve Univ., 1929; Assoc. in Med., St. Luke's Hosp., Cleveland, Ohio; Asst. Visitant, Med. Dept., *ibid.;* Asst. Visit. Phys., O. P. D., Lakeside Hosp.; Visitant in Med., St. Luke's Hosp., Cleveland.

NICHOLS, ALVORD G.
A.B., Colgate, 1916; M.D., Harv., 1921; Interne, Worcester City Hosp., 1921-23; Act. Asst. Supt., *ibid.; Second Asst. Supt., P. B. B. H., Sept. 17, 1923-June 1, 1924;* Asst. Med. Director, John Hancock Life Insurance Co., Boston. *Died May 18, 1926.*

NICHOLS, 3D, ANDREW
A.B., Harv., 1912; M.D., *ibid.,* 1916; Surg. H. O., B. C. H., 1916-17; Capt., M. C., U. S. Army, 1917-19; *Second Asst. Supt., P. B. B. H., July 1, 1919-Feb. 1, 1921;* in practice, Danvers, Massachusetts.

NOVY, ROBERT LEV
A.B., Univ. of Mich., 1913; M.S., *ibid.,* 1914; M.D., *ibid.,* 1919; *Med. H. O., P. B. B. H., April 15, 1919-April 1, 1920;* in practice, Detroit, Michigan.

O'CONOR, VINCENT JOHN
B.S., Univ. of Mich., 1915; M.D., Rush Med. Coll., 1917; *Surg. H. O., P. B. B. H., Jan. 1, 1917-Jan. 1, 1918;* House Surgeon, Presbyterian Hosp., Chicago, Ill., 1918; 1st Lieut., M. C., U. S. Army, 1918-19; *Asst. Res. Surg., P. B. B. H., Feb. 15, 1919-July 15, 1920;* Urol. Surg., Washington Boulevard Hosp.; Assoc. Prof., G. U. Surg., Univ. of Ill., Sch. of Med.; Urol. Surg., Lutheran-Deaconess Hosp., Chicago; Urol. Surg., Garfield Park Hosp.; in practice, Chicago, Illinois.

OLDBERG, ERIC
B.S., Northwestern, 1923; M.S., *ibid.,* 1926; M.D., *ibid.,* 1927; Ph.D., *ibid.,* 1928; Asst. in Chemistry, *ibid.,* 1922-23; Asst. in Physiol. and Pharmacol., *ibid.,* 1925-27; Instr. in Physiol., *ibid.,* 1927-28; Elizabeth J. Ward Fellow in Physiol., *ibid.,* 1927; *Surg. H. O., P. B. B. H., Jan. 1, 1928-Apr., 1929; Asst. Res. Surg., P. B. B. H., Apr. 1, 1929-Oct. 1, 1930;* George Gorham Peters Traveling Fellow in Berlin and Oxford, 1930-31; Asst. Prof. of Surg., in charge of Neuro-Surgery, Univ. of Illinois, Chicago, Ill.; Attend. Neuro-Surg., Illinois Research and Education Hosp., and St. Luke's Hosp., Chicago; Consult. Neuro.-Surg., Illinois Central Hosp., Chicago.

O'MEARA, JOHN WILLIAM
A.B., Holy Cross, 1912; M.D., Harv., 1918; *Surg. H. O., P. B. B. H., Jan. 7, 1918-Jan. 7, 1919;* Orthopedic H. O., Children's Hosp., Boston, 1919; Comm. for Relief in Near East, in charge of Surg.

Wards, American Hosp., Samsoun, Turkey-in-Asia, 1919-20; Orthopedic Surg., St. Vincent's Hosp., Worcester; Sr. Orth. Surg., Worcester City Hosp.; in practice, Worcester, Massachusetts.

OPPENHEIMER, ELLA
A.B., Bryn Mawr, 1914; M.D., Johns Hopkins, 1918; *Med. H. O., P. B. B. H., Sept. 1, 1918-June 11, 1919;* Phys. in Charge, Baby Summer Hosp. Camp, Washington, D. C., 1920; Examining Phys. (Girls), Juvenile Court, Washington, D. C., 1920-21; Asst. Visit. Phys., Children's Hosp.; Phys., National Training School for Girls; Research Asst., Federal Children's Bureau; Assoc. Pediatrist, Providence Hosp., Washington, D. C.; Director, Div. of Child Hygiene, Children's Bureau, U. S. Dept. of Labor, 1922-24; Residence, Bethesda, Md.

ORMOND, ALEXANDER T.
A.B., Princeton, 1912; M.D., Johns Hopkins, 1919; *Surg. H. O., P. B. B. H., Nov. 1, 1919-March 1, 1921. Deceased.*

ORMOND, JR., ALFRED CURTIS
A.B., Davidson, 1922; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., Oct. 1, 1927-Feb. 1, 1929.*

ORR, JR., LOUIS M.
B.S., Emory Coll., 1922; M.D., Atlanta Med. Coll., 1924; Jr. Interne, Grady Hosp., Atlanta, Ga., 1923-24; *Surg. H. O., P. B. B. H., July 1, 1924-Nov. 1, 1925;* Asst. Res. Surg., Lakeside Hosp., Cleveland; in practice, Orlando, Florida.

OUGHTERSON, ASHLEY W.
M.D., Harv., 1924; M.S., Yale, 1929; *Pathol. H. O., P. B. B. H., Jan. 1, 1924-Jan. 1, 1925;* Surg. H. O., New York Hosp., Jan. 1, 1925-Jan. 1, 1927; Res. Surg., 1st Surg. Div., Bellevue Hosp., New York, Jan. 1, 1927-July 1, 1927; *Asst. Res. Surg., P. B. B. H., 1927-28;* William Harvey Cushing Fellow in Surg., Yale Univ., 1928-29; Asst. Prof. of Surg., *ibid.*

PARKER, JR., FREDERICK
A.B., Harv., 1913; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., March 1-April 1, 1917;* Asst. Pathol., B. C. H.

PARKINS, LEROY EDWARD
A.B., Simpson Coll., 1912; M.D., Harv., 1918; Asst. Res., Boston Consumptives' Hosp.; Asst. Res., So. Dept., B. C. H.; *Surg. H. O., P. B. B. H., Dec. 1, 1918-March 1, 1920;* private practice, Douglas, Wyo.; *Second Asst. Supt., P. B. B. H., Jan.-May, 1921; First Asst. Supt., ibid., May 1, 1921-Feb. 1, 1923;* Sec., Courses for Graduates, Harv.; in practice, Boston.

PATTERSON, HOWARD A.
M.D., Harv., 1925; Interne, Roosevelt Hosp., New York, 1925-27; House Gynecologist, *ibid.*, 1927-28; *Asst. Res. Surg., P. B. B. H.,*

Feb. 1-Sept. 1, 1928; Asst. Surg. to Out-Patients, Roosevelt Hosp., N. Y.; Asst. Attend. Surg., *ibid.*

PEABODY, FRANCIS WELD

A.B., Harv., 1903; M.D., *ibid.,* 1907; House Pupil, M. G. H., 1907-08; Asst. Res. Phys., J. H. H., 1908-09; Fellow in Pathol., Johns Hopkins, 1909-10; Stud. of Chem., Univ. of Berlin, Germany, 1910; Asst. Res. Phys., Hosp. of Rockefeller Inst., 1911-12; Asst., Rockefeller Inst., 1911-12; *Res. Phys., P. B. B. H., Nov. 1, 1912-Sept. 1, 1915 (granted leave of absence March 1, 1914-Jan. 1, 1915, to serve as a member of the China Medical Commission of the Rockefeller Foundation); Asst. Visit. Phys., P. B. B. H., Sept. 1-Dec. 9, 1915;* Alumni Asst. in Med., Harv., 1913-15; Asst. Prof. of Med., *ibid.,* 1915-19; Consult. Phys., Collis P. Huntington Mem. Hosp., Boston; *Phys., P. B. B. H., Dec. 9, 1915-Sept. 1921 (leave of absence Aug. 1, 1917-Feb. 1, 1918, to serve as a member of the American Red Cross Comm. to Roumania);* Major, M. C., U. S. Army, 1918-19; Assoc. Prof. of Med., Harv., 1920-21; Prof. of Med., *ibid.;* Visit. Phys., B. C. H.; Director, Thorndike Lab., *ibid.;* Member, China Medical Board, Rockefeller Foundation; Member, Board of Scientific Directors, Rockefeller Inst.; *Consult. Phys., P. B. B. H., 1921-27. Died Oct. 13, 1927.*

PECK, EUGENE CURTIS

A.B., Harv., 1916; M.D., *ibid.,* 1919; *Med. H. O., P. B. B. H., July 1, 1919-July 1, 1920;* Instr. in Physiol. Chem., Tulane Univ., New Orleans, La.; Asst. in Pediatrics, Harv.; Prof. of Biochemistry and Physiol., St. John's Univ., Shanghai, China, 1922-25; H. O., Children's Med. Serv., M. G. H., 1925-26; Pediatrician, Lawrence and Mem. Assoc. Hosp., New London, Conn.; in practice, New London, Conn.

PENFIELD, WILDER GRAVES

Litt.B., Princeton, 1913; B.A., Oxford, 1916; M.A. and B.Sc., *ibid.,* 1920; M.D., Johns Hopkins, 1918; *Surg. H. O., P. B. B. H., Aug. 15, 1918-Sept. 20, 1919;* Beit Mem. Research Fellow, England; Assoc. Attend. Surg., Presbyterian Hosp., New York; Asst. Prof. of Surg., Columbia Univ.; Asst. Surg., Neurol. Inst. of New York; Attend. Neurol., Vanderbilt Clin.; Prof. Neurology and Neuro-Surgery, McGill Univ.; Surg. in charge Neurol. Surg., Royal Victoria Hosp.; Consult. Neurol. Surg., Montreal Gen. Hosp.; Director, Montreal Neurol. Inst.; in practice, Montreal.

PETTIT, ROSWELL TALMADGE

S.B., Univ. of Chicago, 1908; M.D., Rush Med. Coll., 1913; *Med. H. O., P. B. B. H., March 1, 1914-July 1, 1915;* Asst. Med. Director, Ottawa Tuberculosis Colony, Ottawa, Ill.; Phys., Illinois Valley Hosp., Ottawa, Ill.; Capt., M. C., U. S. Army; in practice, Ottawa, Illinois.

PICKWICK, ERSKINE R.
M.D., Tufts, 1924; Interne, Newton Hosp., 1924-25; Asst. Surg., Hood Rubber Co. (Hosp.), Watertown, Mass., 1925-27; Asst. Res. (Exec.) Worcester City Hosp., 1927-29; *H. O. Roent., P. B. B. H., July 1, 1929-July 1, 1930; Asst. Res. in Roent., ibid., July 1, 1930-July 1, 1931;* Asst. Visit. Roent., Pondville Hosp., 1932; Asst. Visit. Roent., Burbank Hosp., Fitchburg; in practice (Roentgenology), Fitchburg, Mass.

PILCHER, COBB
M.D., Vanderbilt Univ., 1927; *Surg. H. O., P. B. B. H., July 1, 1927-Nov. 1, 1928;* Asst. Res. Phys., Vanderbilt Univ. Hosp., Nashville, Tenn., 1928-29; Asst. Res. Surg., *ibid.*, July, 1929-Jan., 1931; Res. Surg., *ibid.*, 1931-32; Instr. in Surg., *ibid.* (on leave of absence); Special Student, Dept. of Neuro-Surg., Univ. of Chicago, Feb.-May, 1932; Fellow in Neuro-Surg., Washington Univ. School of Med., St. Louis, Mo.

PINKERTON, HENRY
S.B., M. I. T., 1918; M.D., Harv., 1924; *Pathol. H. O., P. B. B. H., July 1, 1924-July 1, 1925;* Res. Pathol., Children's Hosp., Boston, July, 1925-July, 1926; *Res. Pathol., P. B. B. H., Sept. 1, 1926-Sept. 1, 1927;* Instr. in Pathol., Harv.

POKORNY, NORMAN A.
A.B., Marquette Univ., 1925; M.D., Johns Hopkins, 1929; *Med. H. O., P. B. B. H., Mar. 1, 1930-July 1, 1931.*

POTTER, WILLIAM HENRY
A.B., Harv., 1878; D.M.D., *ibid.*, 1885; A.M., Hon., *ibid.*, 1927; Demonstr. in Operative Dentistry, Harv., 1887-88; Clin. Lecturer, *ibid.*, 1890-96; Lecturer, *ibid.*, 1896-1900; Asst. Prof., *ibid.*, 1900-04; Prof., Operative Dentistry, *ibid.*, 1904-1927; Prof. Emeritus, *ibid.*, 1927; Dental Surgeon, "Ambulance American Hospital" at Neuilly, France, 1914-15; 1st Lieut., Major, and Lieut. Col., Dental Corps, U. S. A., 1917-19, A. E. F.; Member, U. S. A. Base Hosp. No. 5, A. E. F.; Instr., Dental Dept., U. S. A. Sanitary School, Langres, 1918-19; *Consulting Dental Surg., P. B. B. H. Died July 27, 1928.*

POTTS, JR., WILLIAM HENRY
A.B., Univ. of Texas, 1922; M.D., Harv., 1926; *Med. H. O., P. B. B. H., March 1, 1926-July 1, 1927;* Asst. Clin. Med., Baylor Univ., 1927-29; Instr. Clin. Med., *ibid.;* in practice, Dallas, Texas.

POWERS, JOHN HOWARD
A.B., Bates, 1919; B.A., Oxon, 1923; M.D., Harv., 1925; Surg. H. O., Lakeside Hosp., Cleveland, Ohio, 1925-26; *Asst. Res. Surg., P. B. B. H., Oct. 15, 1926-Sept. 15, 1927;* Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv.; *Assoc. in Surg., P. B. B. H., Sept., 1927-Oct., 1928; Res. Surg., ibid., Oct. 15, 1928-July 1, 1930;* Assoc. Surg., Mary Imogene Bassett Hosp., Cooperstown, New York.

PRICE, JAMES VALENTINE
A.B., Univ. of N. C., 1915; M.D., Johns Hopkins, 1919; *Surg. H. O., P. B. B. H., Oct 15, 1919-March 1, 1921;* Guggenheim Bros., La Paz, Bolivia, S. A.

PUTNAM, TRACY JACKSON
A.B., Harv., 1915; M.D., *ibid.,* 1920; Asst. Res. Pathol., J. H. H., 1920-21; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1923-Oct. 1, 1924;* Moseley Traveling Fellow, Harv., 1925; Arthur Tracy Cabot Fellow, *ibid.,* 1925-26; *Assoc. in Surg., P. B. B. H., 1925-28;* Instr. in Neuropathol., Harv.; Asst. Visit. Phys. in Neurol. and Asst. Visit. Surg. for Neuro-Surg., B. C. H.

QUINLAND, WILLIAM SAMUEL
B.S., M.D., Rosenwald Fellow in Pathol., Harv., Sept., 1919-April, 1921; *Asst. in Pathol., P. B. B. H., April 14, 1921-July 28, 1922;* Pathol., G. W. Hubbard and M. E. Hale Hospitals and Prof. of Pathol., Meharry Med. Coll., Nashville, Tennessee; Assoc. Med. Director, Geo. W. Hubbard Hosp., Nashville, Tenn.

RAGSDALE, LUNEY VARNON
A.B., Univ. of Ala., 1917; M.D., Harv., 1924; *Second Asst. Supt., P. B. B. H., June 1-Dec. 15, 1924; Med. H. O., ibid., Dec. 15, 1924-March 1, 1926;* Clin. Instr. in Med., Univ. of Alabama; Asst. Clin. Prof. Med., *ibid.,* 1931; Associate, American College of Physicians, 1930; Asst. Director, M. G. H.

RAND, CARL WHEELER
A.B., Williams, 1908; A.M., *ibid.,* 1909; M.D., Johns Hopkins, 1912; Res. H. O., J. H. H., 1912-13; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1913-Nov. 1, 1914;* House Surg., Mercy Hosp., Chicago, Ill., 1914-15; Lieut., M. C., U. S. Army; Clin. Prof. Surg., (Neurological) Univ. of California; in practice, Los Angeles, Calif.

RAPPORT, DAVID
A.B., Harv., 1912; M.D., *ibid.,* 1916; Moseley Travelling Fellow, Harv., 1916-17; *Med. H. O., P. B. B. H., March 1-June 17, 1917;* Lieut., M. C., U. S. Army, 1917-19; Austin Teaching Fellow in Physiol., Harv., 1919-20; Instr. in Physiol., *ibid.;* Research Fellow in Physiology, Cornell Univ. Med. Coll., 1921-24; Sr. Instr. in Physiol., Western Reserve Univ. Med. Sch., 1924-26; Asst. Prof. Physiol., *ibid.,* 1926-29; Prof. Physiol., Tufts Med. School.

RAWLINGS, J. MOTT
B.S., Princeton, 1921; M.D., Johns Hopkins, 1925; Interne, *ibid.,* 1925-26; Instr. in Pathol., *ibid.,* 1926-27; H. O. Med. Serv., Baltimore City Hosp., 1927-28; *Pathol. H. O., P. B. B. H., July 1, 1928-July 1, 1929.*

READ, JAMES S.
B.A., Vanderbilt Univ., 1921; M.D., *ibid.,* 1924; Interne, Louisville City Hosp., 1924-26; *Asst. Res. Phys., P. B. B. H., July 1, 1926-July 1, 1927;* in practice, Nashville, Tenn.

Reifenstein, Benedict W.
B.S., Syracuse, 1920; M.D., *ibid.*, 1922; Pathol. H. O., Hosp. of the Good Shepherd, Syracuse, N. Y.; *Pathol. H. O., P. B. B. H., July 1, 1922-July 1, 1923;* Med. H. O., New Haven Hosp., 1923-24; Asst. Phys., Syracuse Univ. Hosp. of the Good Shepherd; Inst. in Med., Syracuse Univ. College of Med.; in practice, Syracuse, New York.

Rennie, Thomas A. C.
B.S., Univ. of Pittsburgh, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., Nov. 1, 1928-March 1, 1930.*

Reynolds, Lawrence
A.B., Univ. of Ala., 1912; M.D., Johns Hopkins, 1916; Capt., M. C., U. S. Army, 1917-19; *Roentgenologist, P. B. B. H., Oct. 15, 1919-June 1, 1922;* Roentgenologist, Children's Hosp., Boston, 1922; Roentgenologist, Children's Free Hosp., Detroit, Mich.; Asst. Roentgenologist, Harper Hosp., Detroit; Editor, Am. Journal of Roent.; in practice, Detroit, Mich.

Rhea, Lawrence Joseph
B.S., Univ. of Texas, 1901; M.D., Johns Hopkins, 1905; F.R.C.P.; H. O. in Pathol., B. C. H., 1906-07; Second Asst. in Pathol., *ibid.*, 1907; First Asst. in Pathol., *ibid.*, 1907-08; Asst. Visit. Pathol., *ibid.*, 1908-09; Asst. in Pathol., Harv., 1908-09; Instr. in Pathol., *ibid.*, 1909-10; Asst. Pathol., B. C. H., 1909-10; Director of Pathol. Lab. and Pathol., Montreal Gen. Hosp., 1910-12; Lect. in Pathol., McGill Univ., 1910-11; Asst. Prof. of Pathol., *ibid.*, 1911-12; *Res. Pathol., P. B. B. H., July 1, 1912-Oct. 1, 1913;* Asst. Prof. of Pathol., Harv., 1912-13; Assoc. Prof. of Pathol., McGill Univ.; Major, Canadian Army Med. Corps; Pathol., Children's Memorial Hosp., Montreal; Pathol., Babies' and Foundlings' Hosp., Montreal; Director, Pathol. Lab., Montreal Div. of Shriner's Hosp.; Director of Pathol. Lab., Montreal General Hosp.

Rhoads, Cornelius Packard
A.B., Bowdoin, 1920; M.D., Harv., 1924; *Surg. H. O., P. B. B. H., July, 1924-May 18, 1925;* Assoc. in Pathol., Boston City Hosp., 1926-27; Instr. in Pathol., Harv., 1927-28; Assoc., Rockefeller Inst. for Med. Research.

Richardson, Henry Barber
A.B., Harv., 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., March 1, 1915-July 1, 1916;* Asst. in Med., Johns Hopkins; Asst. Disp. Phys., J. H. H.; First Lieut., M. C., U. S. Army, 1918-19; Instr. in Med., Columbia Univ., New York, and Asst. Adjunct Visit. Phys., Bellevue Hosp., New York, 1921; Instr. in Med., Cornell, and Research Fellow, Russell-Sage Inst. of Pathol., Bellevue Hosp., New York; Visit. Phys., Bellevue Hosp.; Assoc. Prof. of Med., Cornell Univ. Med. Coll., New York.

Riddle, Matthew C.
B.A., Reed College, 1917; M.A., Univ. of Oregon, 1922; M.D., Harv., 1926; Huntington Mem. Hosp., March-June, 1926; *Med. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928;* Res. Interne and Jr. Research Asst., Simpson Mem. Inst. for Med. Research; Fellow in Med., National Research Council; Clin. Instr. in Med., Univ. of Oregon Med. Sch., 1930-32; Clin. Assoc. in Med., *ibid.;* in practice, Portland, Ore.

Ringer, Michael
B.S., Coll. of City of New York, 1915; M.D., Cornell, 1919; Instr. in Exper. Med., Yale, 1919-21; Instr. in Physiol., Cornell, 1921-23; *Med. H. O., P. B. B. H., Nov. 1, 1923-Jan. 1, 1925;* in practice, New York.

Rioch, David M.
B.A., Butler Coll., Indianapolis, 1920; M.D., Johns Hopkins, 1924; *Surg. H. O., P. B. B. H., Nov. 1, 1924-March 1, 1926; Asst. Res. Surg., ibid., March-April, 1926;* Asst. Med. Res., Strong Mem. Hosp., Rochester, N. Y., April 1, 1926-July 1, 1927; Instr. in Med., Univ. of Rochester Sch. of Med., July 1, 1927-Sept. 15, 1928; Nat. Research Council Med. Fellow, Sept. 15, 1928-Sept. 15, 1930; Assoc. in Physiol., Johns Hopkins Med. Sch., 1930-31; Asst. Prof. Anat., Harv.

Rooney, James Stewart
Univ. of Calif., 1917-21; M.D., Harv., 1926; *Pathol. H. O., P. B. B. H., Jan. 1-Oct. 1, 1926;* Res. Pathol., Long Island Hosp., Oct. 1, 1926-June 1, 1927; Res. Phys., *ibid.,* 1927-28; Instr. in Pathol., Harv.; Pathol., Charles Choate Mem. Hosp., Woburn, Faulkner Hosp., Boston, Industrial Accident Board, Commonwealth of Mass., Lynn Hosp., Lynn, Malden Hosp., Malden, Women's Hosp., Boston, Ducy Hosp. and Moore Hosp., Brockton, Norwood Hosp., Norwood, Peterborough Hosp., Peterborough, N. H., Symmes Arlington Hosp., Arlington, Weymouth Hosp., Weymouth, Whidden Mem. Hosp., Everett, Community Mem. Hosp., Ayer; Winchester Hosp., Winchester, and Winthrop Comm. Hosp., Winthrop.

Root, Howard Frank
A.B., Harv., 1913; M.D., *ibid.,* 1919; *Med. H. O., P. B. B. H., Feb. 13, 1919-Jan. 1, 1920;* Clin. Lab., J. H. H., 1920; Phys., N. E. Deaconess Hosp.; *Assoc. in Med., P. B. B. H., April 13, 1922-Dec. 31, 1930;* in practice, Boston, Mass.

Ross, J. Paterson
M.B., M.S., London; F.R.C.S., England; St. Bartholomew's Hosp., England; *Jr. Assoc. in Surg., P. B. B. H., April 9, 1923-Sept. 14, 1923.*

Rublee, C. D.
M.D., Univ. of Vt., 1922; in practice, 1922-28; *Roent. H. O., P. B. B. H., Nov. 1, 1928-Feb. 1, 1929;* in practice, Newport, Vt.

SAEGER, ERNEST TIRRILL

B.S., Dart., 1914; M.D., Harv., 1917; *Surg. H. O., P. B. B. H., July 1, 1917-Aug. 1, 1918;* Res., First Surg. Division, Bellevue Hosp., New York; in practice, Boston.

SAGEBIEL, JAMES LAMBERT

B.S., Denison Univ., 1924; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., Oct. 1, 1927-Feb. 1, 1929;* H. O., Boston Lying-In Hosp., Mar. 1, 1929- Sept. 15, 1929; Jr. Assoc. in Neurol., Miami Valley Hosp.; Asst. Med. Director, Orchard Springs San.; in practice, Dayton, Ohio.

SALLEY, S. MARION

B.S., Emory Univ., Atlanta, 1924; M.D., *ibid.*, 1928; Interne, Grady Hosp., July 1, 1928-July 1, 1929; *Asst. Res. Phys., P. B. B. H. Aug. 1, 1929-July 1, 1931.*

SCARFF, JOHN E.

B.S., Princeton, 1920; M.D., Johns Hopkins, 1924; experimental lab. work, *ibid.*, 1924-25; H. O., *ibid.*, 1925-27; *Surg. H. O., P. B. B. H., March 1, 1927-July 1, 1928; Asst. Res. Surg., ibid., July 1, 1928-July 1, 1930; Res. Surg., ibid., July 1, 1930-Oct. 1, 1930;* Jr. Attend. Neuro-Surg., Bellevue Hosp., N. Y.; Instr., Neuro-Surg., N. Y. Post-Graduate Med. Sch. and Hosp.; in practice, (Neuro-Surgery) N. Y.

SCHLESINGER, MONROE J.

B.S., Coll. City of New York, 1912; Ph.D., Harv., 1920; M.D., *ibid.*, 1926; Asst., N. Y. H. D. Research Lab., 1912-14; Asst. Bacteriol., West Penn. Hosp., Pittsburgh, 1914-17; Asst. in Preventive Med. and Hygiene, *ibid.*, 1917-20; Instr., *ibid.*, 1920-22; Asst. in Pathol., *ibid.*, 1922-23; Research Asst. in Pathol., *ibid.*, 1923-25; *H. O. Pathol., P. B. B. H., July 1, 1925-July 1, 1926;* Res. Pathol., Children's Hosp., Boston, 1926-27; Instr. in Pathol., Harv.; Pathol., Beth Israel Hosp., Boston.

SCHMITZ, HENRY L.

B.S., Univ. of Chicago, 1920; M.S., Univ. of Wis., 1922; Ph.D., Univ. of Wis., 1924; M.D., Harv., 1926; Med. H. O., Huntington Mem. Hosp., Boston, July, 1926-Dec., 1926; *Med. H. O., P. B. B. H. March 1, 1927-July 1, 1928;* Lasker Fellow and Instr., Dept. of Med. Univ. of Chicago, 1928-30; Asst. Prof. of Med., *ibid.*

SCHNECK, ROBERT J.

M.D., Harv., 1925; Interne, St. Luke's Hosp., Chicago, 1925-26; *Med. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927; Asst. Res. Phys., ibid., 1927-28;* Instr. in Med., Detroit Coll. of Med.; Jr. Assoc. in Med., Detroit Receiving Hosp.; Assoc. Phys., O. P. D., Harper Hosp., Detroit; in practice, Detroit, Mich.

SCHOLEFIELD, BERNARD GRAHAM
B.A., Oxford, 1921; M.A., B.M., B.Ch., *ibid.*, 1923; M.D., Oxford, 1927; F.R.C.S., England, 1928; M.Ch., Oxon, 1931; Stud., St. Peter's College, Westminster, London, 1912-17; 2nd Lieut., Royal Engineers, 1917-19; Student, Guy's Hosp., London, 1922-23; House Surgeon, *ibid.*, 1924-25; Commonwealth Fund Fellow, Johns Hopkins Univ., 1925-26; *Asst. Res. Surg., P. B. B. H., Aug. 1, 1926-July 10, 1927;* Surg. Registrar, Guy's Hosp., London, England, 1928-32; Honorary Surg., Herefordshire Gen. Hosp.

SCHREIBER, FREDERIC
A.B., Univ. of Mich., Ex. 1918; Ensign, U. S. N., 1918-19; M.D., Harv., 1923; Interne, Harper Hosp., 1923-25; Asst. to Dr. Max Ballin, 1925-28; Assist. in Surg., O. P. D., Harper Hosp., 1926; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1928-Aug. 1, 1929;* Neuro-Surg., Harper Hosp., Receiving Hosp., Children's Hosp. of Mich; Consult. Neuro-Surg., Deaconess Hosp., Sigma Gamma Clin., North End Clin., Woman's Hosp., Herman Kiefer Hosp., Detroit; Prof. Brain and Nerve Surg., Detroit Coll. of Med. and Surg.; in practice, Detroit, Mich.

SCHULZ, REUBEN Z.
A.B., Central Wesleyan Coll., Warrenton, Missouri, 1921; M.A., Univ. of Nebraska, 1926; M.D., *ibid.*, 1927; Fellow and Asst., Dept. of Anat., *ibid.*, 1924-25; Asst. in Bact. and Immunology, *ibid.*, 1925-26; *Pathol. H. O., P. B. B. H., July 1, 1927-July 1, 1928;* Res. Pathol., Children's Hosp., 1928-29; *Res. Pathol., P. B. B. H., Sept. 1, 1929-Sept. 1, 1931;* Instr., Dept. Pathol., Harv.

SCHUMACHER, IRWIN C.
A.B., Univ. of Cal., 1915; M.D., Johns Hopkins, 1919; *Asst. Res. Phys., P. B. B. H., Oct. 1, 1920-Sept. 1, 1921;* Asst. Prof. Med., Univ. of Cal.; in charge, Clin. Pathol. Dept., and Allergy Clin., Director of Clin. Labs., and Visit. Phys., Univ. of Cal. Hosp.

SCHWARTZ, CHARLES WADSWORTH
Ph.B., Yale, 1914; M.D., Harv., 1919; *H. O., X-ray Dept., P. B. B. H., Feb. 20, 1919-Feb. 20, 1920;* Roentgenologist, New York Neurol. Inst.; in practice, New York.

SCOTT, W. J. MERLE
A.B., Oberlin, 1914; M.D., Johns Hopkins, 1918; A.M., Columbia Univ., 1922; First Lieut., M. C., U. S. Army, 1918-19; Asst. in Surg., Henry Ford Hosp., Detroit, Mich., 1918-21; Fellow in Exper. Pathol., Montefiore Hosp., 1921-22; Arthur Tracy Cabot Fellow, Harv., 1922-23; Asst. in Surg., *ibid.*, 1923; *Assoc. in Surg., P. B. B. H., Sept. 1, 1922-July 1, 1923; Asst. Res. Surg., ibid., July 1, 1923-July 1, 1924;* Res. Surg., Lakeside Hosp., and Instr. in Surg., Western Reserve Univ., Cleveland, Ohio, 1924-26; Asst. Surg., Strong Mem. and Rochester Municipal Hosp., 1926-27; Assoc. Surg., *ibid.;*

Asst. Prof. Surg., Univ. of Rochester, Rochester, N. Y., 1926-27; Assoc. Prof. Surg., *ibid.*

SHAMBAUGH, JR., GEORGE E.
A.B., Amherst, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., Nov. 1, 1928-Mar. 1, 1930.*

SHELBURNE, SAMUEL A.
B.A., Rice Inst., Houston, Texas; M.D., Univ. of Pa., 1928; H. O., Univ. Hosp., Phil.; Lab. work, Shreveport Charity Hosp.; *Asst. Res. Phys., P. B. B. H., July 1, 1929-July 1, 1930;* Teach. Fellow in Med., Lakeside Hosp.

SHRADER, JOHN C.
B.S., Univ. of Iowa, 1920; M.D., *ibid.*, 1922; Med. Interne, Univ. Hosp., Iowa, 1922-23; Hosp. Chem., *ibid.*, 1923-24; *Asst. Res. Phys., P. B. B. H., July, 1924-Aug., 1926;* Chief Res., Emory Div., Grady Hospital, Atlanta, Georgia, 1926-27; in practice, Ft. Dodge, Iowa.

SIMON, HILDA AMANDA
M.D., Cooper, 1905; *Third Asst. Supt., P. B. B. H., Oct. 5, 1917-March 1, 1919;* Supt., Lynn Hosp., Lynn, Mass. (*resigned*); City Health Dept., Seattle, Wash. *Died June 7, 1929.*

SIMPSON, SUTHERLAND E. R.
A.B., Cornell, 1921; M.D., Harv., 1925; *Med. H. O., P. B. B. H., March 1, 1926-Aug. 1, 1926.*

SISSON, WARREN RICHARDS
A.B., Colgate, 1906; Stud. of Med., Freiburg, Germany (summer semester), 1910; Stud., Univ. of Munchen (winter semester), 1910-11; Stud., Univ. of Heidelberg (summer semester), 1911; M.D., Johns Hopkins, 1912; House Pupil, M. G. H., Children's Med. Ward, 1912-13; *Med. H. O., P. B. B. H., March 1, 1913-March 1, 1914; Res. Pathol., ibid., March 1, 1914-April, 1915;* Instr. in Pathol., Harv., 1914-15; H. O., B. C. H., So. Dept., summer of 1915; Sr. H. O., Boston Floating Hosp., 1915; Instr. in Pediatrics, Johns Hopkins, 1916; Instr. in Pediatrics, Harv.; Visit. Pediatrist, Boston Lying-In Hosp.; Asst. Phys., Children's Hosp.; in practice, Boston.

SMILLIE, WILSON GEORGE
A.B., Colorado, 1908; M.D., Harv., 1912; D.P.H., *ibid.*, 1916; *Med. H. O., P. B. B. H., Nov. 1, 1912-March 1, 1914; Asst. Res. Phys., ibid., March 1-Sept. 1, 1914;* Asst. Instr., Dept. of Preventive Med., Harv., 1914-16; Research Fellow, Rockefeller Inst., New York City, 1916-17; International Health Board of Rockefeller Foundation, 1917; loaned by the board as Asst. Prof. Hygiene de Faculdade de Medicina, Sao Paulo, Brazil, 1918-20; Director, Institute Hygiene; Prof. of Hygiene, Faculdade de Medicina e cirurgia, Sao Paulo, Brazil, 1920-22; Director of Training Base, International Health Board, Andalusia, Ala., 1922-25; Asst. Director for U. S., Inter-

national Health Board, New York; Prof., Public Health Adm., Harv. School of Public Health.

Smith, Barney Barr
M.D., Jefferson, 1917; H. O., Jewish Hosp., Philadelphia, Pa., 1917-18; First Lieut., M. C., U. S. Army, 1918-19; Asst., X-ray Dept., Lincoln and Beth Israel Hosp., New York City, 1920; *H. O., X-ray Dept., P. B. B. H., April 15, 1920-April 21, 1921;* Assoc. Roent., City Hosp., Buffalo; Instr. in Radiology, Univ. Buffalo Med. Sch.; Roent., Marine Hosp., Buffalo; in practice, Buffalo, New York.

Smith, Judson Arthur
A.B., Harv., 1915; M.D., *ibid.,* 1918; *Med. H. O., P. B. B. H., Feb. 14, 1918-Jan. 30, 1919;* Surg. Serv., New Haven Hosp.; *Asst. Res. Surg., P. B. B. H., June 15, 1921-July 1, 1922;* H. O., Boston Lying-In Hosp., 1922-23; Res. Obstetrician, *ibid.,* 1923-24; in practice, Boston.

Smith, W. Carter
B.S., Emory Univ., 1924; M.D., *ibid.,* 1926; Interne, Grady Hosp., Atlanta, Ga., 1926-27; Asst. Res. Phys., Vanderbilt Univ. Hosp., 1927-28; *Jr. Assoc. in Med., P. B. B. H., Sept. 1, 1928-Sept. 1, 1929;* Res. Phys., Grady Hosp. (Emory Univ.), 1929-30; in practice, Atlanta, Georgia.

Smith-Petersen, Marius Nygaard
B.S., Univ. of Wis., 1910; Univ. of Wis. Med. Sch., 1910-12; M.D., Harv., 1914; *Surg. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915;* Res. Surg., Harv. Unit, Am. Ambulance Hosp., Paris, France, April-July, 1918; House Pupil, M. G. H. (Orthopedic Serv.), 1916; Visit. Orthopedic Surg., M. G. H.; Chief, Orthopedic Serv., M. G. H.; Asst. Prof. Orthopedics, Harv.; in practice, Boston.

Sooy, Daniel Warren
M.D., Univ. of Cal., 1917; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1921-July 1, 1922;* Instr. in Surg., Univ. of Cal. Med. Sch.; in practice, San Francisco.

Spies, Thomas D.
M.D., Harv., 1927; *Pathol. H. O., P. B. B. H., Jan. 1, 1928-Jan. 1, 1929.*

Spillman, Ramsay
A.B., Cornell, 1914; M.D., *ibid.,* 1917; *Surg. H. O., P. B. B. H., July 1, 1917-March 1, 1918;* Columbia Hosp., Washington, D. C., 1918-19; Asst. Roent., Manhattan Eye, Ear, and Throat Hosp.; in practice (Roentgenology), New York City.

Spurling, Roy G.
A.B., Univ. of Mo., 1920; A.M., *ibid.,* 1923; M.D., Harv., 1923; *Surg. H. O., P. B. B. H., Nov. 1, 1923-March 1, 1925; Asst. Res. Surg., ibid., March 1-Sept. 1, 1925;* Res. Surg., Louisville City

Hosp., Louisville, Ky.; Instr. in Surg., Univ. of Louisville Sch. of Med.; Asst. Prof. Surg., *ibid.*

STATER, WAYNE J.
A.B., Univ. of Oregon, 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H., March 1, 1922-July 1, 1923;* in practice, Portland, Oregon.

STECHER, ROBERT M.
B.S., Dart., 1919; M.D., Harv., 1923; *Med. H. O., P. B. B. H., Nov. 1, 1924-Nov. 1, 1925;* Research Asst. in Med., Cleveland City Hosp.; Asst. Visit. Phys. in General Med. and Phys. in Med. in the O. P. D., Cleveland City Hosp.; Desert San. of So. Arizona, Tucson, Ariz., (on leave Oct. 1, 1931-May 1, 1932, for Clin. Research).

STELLAR, ROBERT W.
B.S., Occidental Coll., Cal., 1919; Univ. of Cal., 2 years; M.D., Harv., 1923; *Surg. H. O., P. B. B. H., Nov. 1, 1923-March 1, 1925;* in practice (traumatic surgery), Wilmington, Calif.

STEVENS, FRANKLIN AUGUSTUS
B.S., Univ. of Iowa, 1913; M.D., *ibid.*, 1915; Res. Phys., Univ. Hosp., Iowa, 1915; Instr. in Med., Univ. of Iowa, 1916-17; *Asst. Res. Phys., P. B. B. H., July 21, 1917-Jan. 1, 1918;* M. C., U. S. Army, 1918-19; Coolidge Fellow in Med., Columbia Univ., New York, 1919-20; Instr. in Med., *ibid.;* in practice, New York City.

STEVENS, WILLIAM B.
M.D., Harv., 1924; Asst. Res., Thorndike Lab., B. C. H., 1924-25; Interne, 4th Med. Service, *ibid.*, 1925-26; *Asst. Res. Phys., P. B. B. H., Dec. 1, 1926-Aug. 22, 1927;* Jr. Visit. Phys., B. C. H.; Member, Assoc. Staff, Faulkner, N. E. Deaconess, Robert B. Brigham Hosp., Boston; Asst. in Med., Harv.; in practice, Boston.

STEWART, STEELE FULLER
B.S., Westminster, Pa., 1912; M.D., Univ. of Pa., 1918; *Surg. H. O., P. B. B. H., June 1, 1918-July 1, 1919;* Orthopedic Service, Children's Hosp., Boston, 1920; Orthopedic Service, M. G. H., 1921-22; Assoc. Orthopedic Surg., Children's Hosp., Los Angeles, 1922; Asst. Orthopedic Surg., *ibid.;* Jr. Orthopedic Surg., Los Angeles Gen. Hosp.; Orthopedic Surg., San Bernardino County Welfare Commission; Orthopedic Consultant, Nat. Home for Disabled Volunteer Soldiers, Sawtelle, Calif.; Asst. Prof. Surg. (Orthopedics), Univ. of So. California; in practice, Los Angeles, Calif.

STIMSON, HORACE POTTLE
A.B., Amherst, 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., March 1, 1923-July 1, 1924; Asst. Res. Surg., ibid., Sept. 8-Dec. 12, 1924;* Phys. of Fogg Museum Archæological Expedition to Mongolia, 1925; in practice, Miami, Florida, 1926-28; Assoc. in Traumatic Surg., Clin. of Drs. Forrester, Stimson and Mason.

Stoddard, James Leavitt
A.B., Harv., 1910; M.D., *ibid.*, 1914; *Pathol. H. O., P. B. B. H., July 1, 1914-July 1, 1915; Act. Res. Pathol., ibid., July 1-Sept. 1, 1915;* Research Fellow in Pathol., Harv.; Major, M. C., U. S. Army, 1917-19; Lect. in Biochemistry, Smith Coll., 1920-21; Asst. Prof. Biochemistry, Smith Coll., 1921-22; Chemist, M. G. H.; Asst. in Med., Harv.

Stone, Eric Percy
B.S., Harv., 1914, as of 1915; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., May 15, 1918-July 1, 1919; Asst. Res. Surg., ibid., Oct. 1, 1919-June 15, 1920;* Surg. in Charge, Urol. Serv., Prov. City Hosp.; Asst. Surg., Gynæcological Serv., R. I. Hosp.; Consult. Urol., Prov. Lying-In Hosp., Memorial Hosp., Pawtucket, and South County Hosp., Wakefield, R. I.; in practice, Providence, R. I.

Stone, George Henry
A.B., Bowdoin, 1905; M.D., *ibid.*, 1908; H. O., Maine Gen. Hosp., 1908-09; in practice, Clinton, Mass., 1909-11; H. O., B. C. H., 1912-13; Exec. Asst., *ibid.*, 1913-15; *Third Asst. Supt., P. B. B. H., Feb. 1, 1915-May 1, 1917; Second Asst. Supt., ibid., May 1, 1917-July 1, 1919;* Capt., M. C., U. S. Army, 1918-19; Major, Med. Sec., Officers' Reserve Corps, U. S. Army; *First Asst. Supt., P. B. B. H., July 1, 1919-May 1, 1921; Supt.,* Eastern Maine Gen. Hosp., Bangor, Maine, June, 1921-Feb., 1930; Supt., The Memorial Hosp., Worcester, Mass.

Strayer, Luther M.
A.B., Princeton, 1926; M.D., Harv., 1930; *Surg. H. O., P. B. B. H., July 1, 1930-Nov. 1, 1931;* Jr. Fellow in Surg., Presbyterian Hosp., N. Y.

Strayhorn, Jr., William David
B.A., Vanderbilt, 1925; M.D., *ibid.*, 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929;* Asst. in Med., Vanderbilt Hosp., Nov. 1, 1929-July 1, 1930; Asst. Res. Phys., *ibid.*, 1930-31; Res. Phys., *ibid.*, 1931-32; Res. Phys., N. Y. Hosp. and Cornell Univ. Med. Coll.

Sturgis, Cyrus Cressey
B.S., Univ. of Wash., 1913; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H., Oct. 15, 1917-Aug. 22, 1918;* 1st Lieut., M. C., U. S. Army, 1918-19; *Asst. Res. Phys., P. B. B. H., Aug. 25, 1919-April 15, 1920; Res. Phys., ibid., April 15, 1920-Aug. 1, 1922; Assoc. in Med., ibid., Aug. 1, 1922-Sept. 1, 1925;* Fac. Instr. in Med., Harv., Sept. 1, 1922-Sept. 1, 1925; Asst. Prof. Med., *ibid.*, Sept. 1, 1925; Assoc. Phys., C. P. Huntington Hosp., Sept. 1, 1925-Jan. 1, 1926; *Physician, P. B. B. H., Sept. 1, 1925-July 1, 1927;* Director, Thos. Henry Simpson Mem. Inst. for Med. Research; Prof. Int. Med., Univ. of Mich. Sch. of Med.; Director, Dept. of Int. Med., Univ. Hosp.

TAFT, ANNIE E.
M.D., Tufts, 1907; *Res. Pathol., P. B. B. H., Nov. 5, 1917-Jan. 31, 1918;* Res. Phys., Pa. Hosp. Mental and Nervous Diseases, 1918-20; Special Research Asst., Boston Psychopathic Hosp., 1920-21; Neuro-Pathol., Pa. Hospital Mental Diseases, and Neuropsychiatrist, Community Health Centre, Philadelphia, 1922-27; Laura Spelman Research Fellow, Dept. Industrial Medicine, Univ. of Pa., 1927-31.

TAFT, ROGER BROWNE
D.M.D., Harv., 1908; Asst. in Oral. Surg., *ibid.*, 1910; Instr. in Oral. Surg., *ibid.*, Feb. 1, 1919; *Dental Surg., P. B. B. H., Jan. 13, 1916-Feb. 13, 1919;* Instr. in Operative Dent., Harv.; in practice (Dentistry), Boston.

TAYLOR, ARTHUR C.
B.A., Univ. of Wisconsin, 1921; M.A., *ibid.*, 1924; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July 1, 1927-Nov. 1, 1928; Pathol. H. O., ibid., Jan., 1929-Jan., 1930;* Asst. Res. in Surg., Wis. Gen. Hosp., Jan., 1930-July, 1030; Res. in Surg., *ibid.*, 1930-31; Asst. in Surg., Univ. Clin., Basel, Switzerland, 1932; Instr. in Surg., Univ. of Wis.

TEEL, CHARLES E.
M.D., Washington Univ., 1923; Surg. Interne, New Haven Hosp., 1923-24; H. O., M. G. H., 1924-25; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1925-June 22, 1926;* Asst. in Genito-Urinary Surg., Harv., 1925-26; in practice, Bellingham, Washington.

TEEL, HAROLD M.
M.D., Harv., 1929; Arthur Tracy Cabot Fellow, Harv., Jan.-Sept., 1929; *Jr. Assoc. in Surg., P. B. B. H., July 1-Sept. 1, 1929;* Asst. Res., Lakeside Hosp., 1929-31; H. O., Boston Lying-In Hosp.

TEFFT, JR., RICHARD C.
A.B., Yale, 1916; M.D., Harv., 1920; *Med. H. O., P. B. B. H., March 1, 1921-July 1, 1922;* Assoc. Phys., Children's Med. Dept., M. G. H.; Consult. in Pediatrics, Mass. E. and E. Infirm.; Instr. in Pediatrics, Harv.; Consult. in Pediatrics, Robert Brigham Hosp.; in practice, Boston, Mass.

TEMPLETON, EARL R.
B.S., Colgate Univ., 1914; M.D., Syracuse, 1920; *Pathol. H. O., P. B. B. H., July 6, 1920-July 1, 1921;* Med. H. O., New Haven Hosp., 1921-22; Res. in Med., Buffalo City Hosp., 1922; Clin. Asst. in Med., *ibid.;* Cardiologist, Mercy Hosp., Buffalo, N. Y.; Post-graduate study abroad, 1932; in practice, Buffalo, N. Y.

THAXTER, LANGDON THOM
A.B., Williams, 1911; M.D., Harv., 1915; Med. House Pupil, M. G. H., 1915-16; *Surg. H. O., P. B. B. H., Nov. 14, 1916-July, 1917;* Res. Roent., M. G. H., 1926-27; Roentgenologist, Maine Gen. Hosp.

THOMPSON, CHARLES BAKER
A.B., Haverford, 1909; M.D., Johns Hopkins, 1913; *Med. H. O., P. B. B. H., Nov. 1, 1913-Nov. 1, 1914;* Second Asst. Res., Phipps Psychiatric Clin., J. H. H., 1914-15; First Asst. Res., *ibid.,* 1915-16; Psychiatrist and Executive Secretary, Mental Hygiene Soc. of Md., 1916-27; Editor, Mental Health, 1923-26; School Psychiatrist, Baltimore Public Schools, 1922-27; Attend. Phys., Vanderbilt Clin., Psychiatric Dept.; Instr. in Psychiatry, College of Phys. and Surgs., New York, 1927-29; Psychiatrist, Bellevue Hosp., New York; Instr. in Psychiatry, N. Y. Univ. and Bellevue Hosp. Med. Coll.; in practice, New York City.

THURMON, FRANCIS M.
B.S., Illinois Coll., 1922; M.D., Harv., 1926; Interne, Wesley Mem. Hosp., 1926-28; Fellow in Med., Harv., 1928-29; *Asst. Res. Phys., P. B. B. H., June 15, 1929-Sept. 1, 1930;* Phys.-in-chief, Clin. of Dermatology and Syphilis, Boston Disp.; Dermatologist, Boston Floating Hosp.; Asst. Prof. Dermatology, Tufts College Med. Sch.

TOLLMAN, JAMES PERRY
B.S., Univ. of Neb., 1927; M.D., *ibid.,* 1929; *Med. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930; Pathol. H. O., ibid., Jan. 1, 1931-July 15, 1931;* Asst. Prof. Pathol., Univ. of Nebraska.

TOWLERTON, FLETCHER JOHNSON
A.B., Harv., 1917; M.D., *ibid.,* 1921; H. O., Collis P. Huntington Mem. Hosp., 1919-20; *Surg. H. O., P. B. B. H., July 1, 1921-Nov. 1, 1922;* Visit. Surg., Lyons Hosp., Lyons, New York; in practice, Lyons, New York.

TOWNE, EDWARD BANCROFT
A.B., Harv., 1906 (1907); M.D., *ibid.,* 1913; *Surg. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914; Asst. Res. Surg., ibid., Nov. 1, 1914-Nov. 1, 1915;* Surg., Second Harv. Unit, B. E. F., France, 1915-16; Vol. Asst. in Exp. Bacteriol., Mayo Foundation, Rochester, Minn., 1916; Fellow *pro tempore,* Mayo Foundation, 1916-17; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1916-May 7, 1917;* Major, M. C., U. S. Army, May, 1917-19; Assoc. Clin. Prof. of Surg., Leland Stanford Junior Univ., San Francisco; in practice, San Francisco, California.

TRANTER, CHARLES LEE
B.S., Univ. of Cal., 1911; M.D., *ibid.,* 1913; Med. and Surg. H. O., Univ. of Cal. Hosp., 1913-14; Asst., Nerve O. P. D., *ibid.,* 1914-15; Asst. in Neurol., Univ. of Cal., 1915; *Asst. Res. Surg., P. B. B. H., Jan. 8, 1916-Jan. 1, 1917;* Asst. in Neurol., Univ. of Cal., 1917; Capt., M. C., U. S. Army; in practice, San Francisco, California.

TURNBULL, GEORGE CLARENCE
M.D., Northwestern Univ., 1922; H. O., Gen. Serv., Surg. and Obstetrics, Evanston Hosp., Evanston, Ill., 1922-23; Asst. in Pathol., Northwestern Univ., 1920-22; *Med. H. O., P. B. B. H.,*

March 1, 1923-July 1, 1924; Phys. (special), Yale, Dept. Univ. Health, New Haven, Conn., 1924-26; Clin. Asst., Dept. Int. Med., Yale Univ. Sch. of Med., 1924-26; Post-Grad. work in Medicine and Pathol., Vienna, Austria, 1926-27; Assoc. in Med., Northwestern Univ.; Assoc. Phys., Evanston Hosp. Med. Service; in practice, Evanston, Illinois.

TURNER, RALPH WALDO
M.D., Albany Med. School, 1917; *Surg. H. O., P. B. B. H., Dec. 23, 1917-May 2, 1918;* Lieut., M. C., U. S. Army. (*Deceased.*)

VAIL, HARRIS HOLMES
A.B., Yale, 1912; M.D., Harv., 1917; *Surg. H. O., P. B. B. H., March 1, 1916-May 3, 1917;* Lieut., M. C., U. S. Navy, 1917-19; H. O., Aural, Mass. Eye and Ear Infirm., 1920-21; Asst. Chief, Ear, Nose and Throat Clin., Cincinnati Gen. Hosp.; Attend. Laryngologist, Cincinnati Gen. Hosp.; Instr. in Oto-Laryngology, Med. Coll. of Univ. of Cincinnati; Attend. Laryngologist, Episcopal Hosp. for Children, Cincinnati; Attend. Oto-Laryngologist, Hosp. for Chr. Diseases and Good Samaritan Hosp., Cincinnati.

VANCE, ROBERT G.
Roent., Huntington Mem. Hosp., 1924-28; *Assoc. in Roent., P. B. B. H., 1928;* Asst. Visit. Phys., X-ray Dept., M. G. H.; Roent. to Winchester and Chelsea Mem. Hosp.; Assoc. Roent., Newton Hosp.

VAN GORDER, GEORGE WILSON
A.B., Williams, 1911; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., March 1, 1915-July 1, 1916;* House Surg., St. Anthony Hosp., Labrador, 1916; Med. House Pupil, M. G. H., 1916-17; House Surg., Free Hosp. for Women, Brookline; Capt., M. C., U. S. Army; Assoc. Prof. Surg. and Assoc. in Surg., Peking Union Med. Coll., Peking, China, 1920-29; Attend. Orth. Surg., M. G. H.; Instr. in Orthopedic Surg., Harv.

VAN WAGENEN, WILLIAM P.
A.B., Cornell, 1918; M.D., Harv., 1922; Asst. Anat., Cornell, 1918-19; H. O., Memorial Hosp., N. Y., 1922; *Surg. H. O., P. B. B. H., 1922-24;* Res. Surg., Memorial Hosp., N. Y., 1924-25; *Asst. Res. Surg., P. B. B. H., 1926-27;* Res. Surg., Rochester Gen. Hosp., 1926-27; Asst. in Neurol., Harv. and B. C. H., 1927-28; Asst. Prof. Surg., Univ. of Rochester School of Med.; Assoc. Prof. Surg., *ibid.*

VASTINE, JACOB H.
M.D., Univ. of Pa., 1923; Interne, Easton Hosp., Easton, Pa., 1923-24; Gen. Practice, 1 year; *H. O., X-ray Dept., P. B. B. H., Aug. 1, 1925-Feb. 1, 1926; Asst. Res. in Roent., ibid., Feb. 1-June 15, 1926;* Clin. Prof. of Radiology, Woman's Med. Coll., Philadelphia; Roentgenologist, Hosp. of the Woman's Med. Coll.; in practice, Philadelphia, Pennsylvania.

VAUGHAN, WARREN TAYLOR
A.B., Univ. of Mich., 1913; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., July 1, 1916-Nov. 7, 1917;* M. C., U. S. Army. Nov. 7, 1917-July 27, 1919; Asst. in Preventive Med. and Hygiene, Harv., 1919-20; Lt. Col., M. O. R. C., C. O. Genl. Hosp., 41; Secretary, Am. Assoc. for the Study of Allergy; Editor, Journ. Lab. and Clin. Med.; in practice, Richmond, Virginia.

VERMOOTEN, VINCENT
A.B., Univ. of Capetown, South Africa, 1918; A.M., *ibid.*, 1919; M.D., Johns Hopkins, 1923; Sr. Demonstr. in Anat., Univ. of Capetown, 1918-20; Res. H. O., Johns Hopkins, 1923-24; Asst. Res. Surg., New Haven Hosp., 1924-27; Asst. in Surg., Yale, 1924-27; Asst. in G. U. Surg., Harv.; *Asst. Res. Surg., P. B. B. H., 1927-28;* Instr. in Urol., Yale Univ., 1928-30; Asst. Prof. Urol., *ibid.;* Assoc. Surg., New Haven Hosp.

VICKERS, DENVER M.
A.B., Colorado Coll., 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H., July, 1921-Nov. 1, 1922;* Surg., Mary McClellan Hosp., Cambridge, New York; in practice, Cambridge, N. Y.

VIETS, HENRY ROUSE
B.S., Dart., 1912; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., March 1-Aug. 16, 1917;* Capt., M. C., U. S. Army, 1917-19; Asst. Neurol., M. G. H.; Asst. Visit. Neurol., Long Island Hosp., Boston; Instr. in Neurol., Harv.; in practice, Boston.

WAKEMAN, EDWARD T.
B.A., Yale, 1919; M.D., *ibid.*, 1922; *Med. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923;* in practice, New Haven, Connecticut.

WALKER, CLIFFORD BLACK
S.B., Univ. of Cal., 1906; Stud., Univ. of Cal. Med. Sch., 1907-10; M.D., Johns Hopkins, 1911; M.D., *ibid.*, 1912; Asst. to Dr. Cushing, 1911-12; Sr. Ophthal. House Surg., Mass. Eye and Ear Infirm., Boston, 1913; Sr. Aural House Surg., *ibid.*, 1914; *Assoc. in Surg., P. B. B. H., March 1, 1915-April 25, 1918;* Asst. in Ophthal., Harv., 1916-18; Assoc. Staff, Good Samaritan Hosp. and Good Hope Clin.; Jr. Ophthalmic Surg., Co. Hosp., Los Angeles, Calif.; Assoc. Clin. Prof. Ophthalmology, College of Medical Evangelists; Assoc. Prof. in Ophthalmology (Surg.) Univ. of So. Calif.; in practice, Los Angeles, Calif.

WALKER, JR., GEORGE L.
B.S., Emory Univ., 1924; M.D., *ibid.*, 1926; H. O., Grady Hosp., 1926-27; House Phys., *ibid.*, 1927-28; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1928-Sept. 1, 1929;* Res. Phys., Cornell Div., Bellevue Hosp., N. Y., 1929-31; in practice, Atlanta, Georgia.

WALKER, WILLIAM G.
M.D., Univ. of Iowa; 3 months Pathol. Dept., *ibid.;* 1 year Interne, Univ. of Iowa Hosp.; 1 year Clin. Asst., *ibia.;* 2½ months Clin. Microscopy, *ibid.; Jr. Assoc. in Med., P. B. B. H., Sept. 25, 1922-July 1, 1924;* Chief, Med. Serv., Brockton Hosp.; in practice, Brockton, Massachusetts.

WARREN, JR., WILLIAM CHESTER
B.S., Emory Univ.; M.D., *ibid.; Surg. H. O., P. B. B. H., March 28, 1922-July 1, 1923;* Asst. and House Surg., Manhattan Ear, Nose and Throat Hosp., New York, 1923-24; Grad. Stud., Vienna, Austria; Assoc. Instr., O. R. L. Serv., Emory Univ.; in practice, Atlanta, Georgia.

WATKINS, S. SHELTON
A.B., Center Coll. of Ky., 1908; A.M., *ibid.,* 1909; M.D., Johns Hopkins, 1914; Med. and Surg. H. O., Church Home and Infirm., Baltimore, 1914; *Third Asst. Supt., P. B. B. H., May 1, 1914-Jan. 15, 1915;* Asst. in Clin. Laryngology, Johns Hopkins; Asst. Disp. Laryngologist, J. H. H.; Asst. Res. Surg., *ibid.;* Mem. of Dr. L. F. Barker's Staff at 1035 No. Calvert St., Baltimore, Md.; Lieut., M. C., U. S. Navy, 1917-19; in practice, Louisville, Kentucky.

WEARN, JOSEPH TRELOAR
B.S., Davidson, 1913; M.D., Harv., 1917; *Med. H. O., P. B. B. H., June 15, 1917-June 15, 1918;* 1st Lieut., M. C., U. S. Army, 1917-19; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1919-Aug. 15, 1921;* Instr. in Pharm., Univ. of Penn., 1921-23; Instr. in Med., Harv., 1923-24; Asst. Prof. of Med., *ibid.;* Asst. Phys., Thorndike Lab., B. C. H.; Jr. Visit. Phys., *ibid.;* Assoc. Prof. Med., Harv.; Assoc. Director, Thorndike Lab., B. C. H.; Visit. Phys., B. C. H., 1928-29; Prof. of Med., Western Reserve Univ., Cleveland, Ohio; Director of Med., Lakeside Hosp.

WEGEFARTH, PAUL
A.B., Johns Hopkins, 1908; Stud. of Med., Strassburg and Berlin, Germany, 1909-11; M.D., Johns Hopkins, 1912; *Surg. H. O., P. B. B. H., Nov. 1, 1912-March 1, 1914;* Res. Phys., Church Home Infirmary, Baltimore, 1914-15; Phys., San Diego, Cal., 1914-17; commissioned 1st Lieut., M. C., Sept., 1917; commissioned Capt., M. C., May, 1918; in practice at San Diego, May, 1919, until December, 1921. *Died March 29, 1923.*

WEISMAN, PAUL GERHARDT
B.S., Univ. of Mich., 1911; M.D., *ibid.,* 1913; H. O., Providence City Hosp. (Contagious Wards), 1914; H. O., R. I. Hosp., 1914-16; *Asst. Res. Phys., P. B. B. H., April 1-Aug. 1, 1916;* Asst. Res., Union Prot. Infirm., Baltimore, 1917; Res., *ibid.,* 1917-18; Lieut., M. C., U. S. Army, 1918; in practice, Colfax, Washington.

WELBOURN, MARSHALL AGNEW
B.S., Univ. of Mich., 1913; M.D., *ibid.*, 1915; *Assoc. in Med., P. B. B. H., July 1, 1915-March 1, 1916; Med. H. O., ibid., March 1, 1916-July 1, 1917;* Capt., M. C., U. S. Army 1917-19; Instr. in Int. Med., Univ. of Mich., 1919-20; in charge of laboratories, Westlake Hosp., Los Angeles, Cal.; Med. Staff, Selwyn Emmet Graves Mem. Disp., Univ. of Calif.; Attend. Staff, California Lutheran Hosp.; in practice, Los Angeles, California.

WELLS, GUY
Ph.B., Brown Univ., 1916; M.D., Cornell, 1920; Interne, R. I. Hosp., 1920-22; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1922-March 1, 1924;* in practice, Providence, Rhode Island.

WELLS, WARD STANLEY
S.B., Grinnell, 1909; M.D., Harv., 1916; *Assoc. in Med., P. B. B. H., July 1, 1916-April 8, 1917; Med. H. O., ibid., April 8-July 18, 1917;* Major, M. C., U. S. Army, Letterman Gen. Hosp., Presidio of San Francisco, Calif.; Instr. in Clin. Electro-Cardiography, Army Med. Center, Washington, D. C. *Died Oct. 24, 1929, at Manila, P. I.*

WENTWORTH, JOHN ALEXANDER
A.B., Bowdoin, 1909; M.D., Harv., 1913; H. O., Hartford Hosp., Hartford, Conn., 1913-15; *Sr. Med. H. O., P. B. B. H., July 1-Nov. 1, 1915;* Alumni Asst., Clin. Pathol., Harv.; Asst., Harv. Infantile Paralysis Comm., Fall, 1916; *Asst. Res. Phys., P. B. B. H., Nov. 1, 1915-Aug. 1, 1917;* Assoc. Phys., Clifton Springs Sanitarium, New York, 1917-18; 1st Lieut., M. C., U. S. Army, 1918-19; Phys., Clifton Springs Sanitarium, New York, 1919-21; Asst. Phys., Hartford Hosp.; in practice, Hartford, Connecticut.

WEST, HOWARD FRANK
A.B., Stanford, 1912; M.D., *ibid.*, 1915; Interne, Lane Hosp., San Francisco, 1915-17; *Asst. Res. Phys., P. B. B. H., Sept. 15-Oct. 15, 1917; Act. Res. Phys., ibid., Oct. 15, 1917-Jan. 1, 1918; Res. Phys., ibid., Jan. 1, 1918-April 15, 1920;* Alumni Asst. in Med., Harv., 1918-20; Assoc. Phys., Diabetic Serv., Children's Hosp., Los Angeles; Assoc. Med. Director, Los Angeles Metabolic Clin.; Staff, St. Vincent Hosp., Los Angeles; Attend. Staff, Hosp. of Good Samaritan; Staff, Cedars of Lebanon and Los Angeles Gen. Hosp.; Clin. Prof. Med., Univ. of So. Calif.; in practice, Los Angeles, Calif.

WHEELER, BANCROFT C.
A.B., Harv., 1920; M.D., *ibid.*, 1924; Surg. H. O., Mass. General Hosp., Sept., 1924-June, 1926; Urol. H. O., Roosevelt Hosp., Jan.-June, 1927; *Asst. Res. Surg., P. B. B. H., 1927-28;* Res. Surg., Mem. Hosp., Worcester, 1928-29; Asst. Visit. Surg., *ibid.*

WHEELER, DANIEL W.
S.B., Knox Coll., 1915; M.D., Rush Med. Coll., 1920; *Asst. Res. Surg., P. B. B. H., June 1, 1921-March 1, 1922;* Fellow in Pathol., Rush Med. Coll., 1920-21; Fellow, Trudeau Foundation, 1922; Asst. Res. Phys., Trudeau Sanatorium, 1923; Asst. Med. Director, Nopeming Sanatorium, Nopeming, Minn., 1924; in practice, Duluth, Minnesota.

WHITAKER, LESTER R.
M.D., Harv., 1923; Surg. H. O., New Haven Hosp., 1923-24; *Assoc. in Surg., P. B. B. H., July 11, 1924-Sept. 1, 1925;* Arthur Tracy Cabot Fellow, Harv., 1924-25; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1925-July 1, 1927;* Nat. Research Council Fellow in Surg., Univ. of Rochester Sch. of Medicine and Dentistry, 1927-28; Second Asst. Visit. Surg., Mass. Memorial Hosp.; Asst. in Surg., and Instr. in Anat., Boston Univ. Sch. of Med.; Assoc. Member, Evans Mem. for Clin. Research and Prev. Med.; in practice, Boston.

WHITING, WALTER BELKNAP
Two years pre-med. work, Wash. and Lee Univ., and Cornell Summer Sch.; M.D., Harv., 1923; *Med. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924; Asst. Res. Phys., ibid., Nov. 1, 1924-July 1, 1925;* Phys., Wichita Clin. Hosp.; in practice, Wichita Falls, Texas.

WHITNEY, RAYMOND CYRUS
B.S., Middlebury, 1914; M.D., Harv., 1918; *Surg. H. O., P. B. B. H., Jan. 10-Oct. 28, 1918;* American Relief Comm., Near East, Caesarea, Turkey-in-Asia, American Hosp.; H. O., Mass. Eye and Ear Infirm., 1920-22; Ophthalmologist, St. Luke's Hosp., New Bedford; in practice (Ophthalmology), New Bedford, Massachusetts.

WILENS, GUSTAV
Ph.B., Yale, 1920; M.D., *ibid.,* 1923; *Pathol. H. O., P. B. B. H., July 1, 1923-July 1, 1924;* Res. Pathol., Children's Hosp., Boston; Instr. in Pathol., Harv., 1924-25; H. O. in Pediatrics, Children's Hosp., Boston, 1926-27; Director of Laboratories, Truesdale Hosp., Fall River, Mass.; Asst. Pediatrician, *ibid.,* Jan.-Sept., 1927; Director of Montgomery Co. Laboratories (Julius Wasserman Mem. and John Barnes Foundation), Montgomery Co., N. Y.; Pathol., City Hosp., St. Mary's Hosp., Amsterdam, N. Y.; Pathol. to Montgomery Co. Tbc. San.; Consultant Pediatrician, *ibid.,* 1930-31; in pediatric practice, Utica, New York.

WILMAERS, ALBERT
M.D., Univ. of Brussels, 1921; Interne, Hospitals of Brussels; 3 months as Asst. to Prof. Vaquez, Paris; worked under Dr. DeMoor and Dr. DeMeyer; Physiol. Inst., Univ. of Brussels; Fellow, C.R.B., Educational Foundation; *Act. Asst. Res. Phys., P. B. B. H., Sept. 15-Nov. 15, 1923;* Asst. in General Path., Univ. of Brussels, 1924-28; in practice, Brussels, Belgium.

WILSON, CHARLES P.
A.B., Reed Coll., Portland, Oregon, 1920; M.D., Johns Hopkins, 1924; *Med. H. O., P. B. B. H., March 1, 1925-July 1, 1926;* Asst. Res. Phys., Vanderbilt Univ., Nashville, Tenn., 1926-27; Res. Phys., *ibid.*, 1927-28; Clin. Assoc. in Med., Univ. of Oregon; in practice, Portland, Oregon.

WILSON, DAVID COLE
B.A., Univ. of Va., 1912; M.D., *ibid.*, 1919; Interne, Univ. of Va. Hosp., 1919; *Med. H. O., P. B. B. H., Dec. 15, 1919-March 1, 1921;* Phys., Clifton Springs San., Clifton Springs, New York; Assoc. Prof. Neuro-Psychiatry, Univ. of Virginia, Med. Dept.

WILSON, JAMES ROBERT
M.D., Syracuse Univ., 1921; Instr., *ibid.;* Asst. in Pathol., Harv.; Res. Pathol., Children's Hosp., Boston; Instr., Dept. Pathol., Harv.; *Res. Pathol., P. B. B. H., Sept. 15, 1923-July 1, 1924;* Assoc. in Pediatrics, Cornell Med. School, New York; Asst. Attend. Pediatrist, Out-Patient Dept., New York Nursery and Child's Hosp., New York; Pathologist, *ibid.;* Asst. Attend. Pediatrist, Pediatric Serv. of Dr. Schloss, 1924-29; Asst. Prof. Pediatrics, Syracuse Med. Sch.; Assoc. Attend. Pediatrician, Syracuse Univ. Hosp.

WILSON, RICHARD B.
B.S., Emory Univ., 1920; M.D., *ibid.*, 1922; H. O. Boston Psycho. Hosp., 1922-23; *Med. H. O., P. B. B. H., March 1, 1924-July 1, 1925;* Post-Grad. work at Inst. for Brain Anatomy, Amsterdam, Holland, 1925-26; Post-Grad. work in Neuro-Pathol., Hamburg, Fredrichsburg, Germany, 1926-27; Post-grad. work, National Hosp., London, 1928; Res., Neurol. Serv., Bellevue Hosp., N. Y., 1929; in practice, Atlanta, Ga.

WISLOCKI, GEORGE BERNAYS
A.B., Washington Univ., 1912; M.D., Johns Hopkins, 1916; Asst. in Anat., *ibid.*, 1916-17; Arthur Tracy Cabot Fellow, Harvard, 1916-17; and 1919-20; *Assoc. in Surg., P. B. B. H., March 25-Oct. 1, 1920;* Assoc. in Anat., Johns Hopkins; Assoc. Prof. of Anat., *ibid.*, 1923-31; Parkman Prof. Anat., Harv.

WOOD, R. HUGH
M.D., Med. Coll. of Va., 1921; Interne, St. Elizabeth's Hosp., Richmond, Va., 1922; Res. Pathol., Mem. Hosp., Richmond, Va., 1922-23; *Med. H. O., P. B. B. H., March 1, 1923-July 1, 1924;* Chief Res., Grady Hosp., Atlanta, Ga., 1924-26; in practice, Atlanta, Georgia.

WOOD, RUSSELL
A.B., Harv., 1916; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., March 1, 1921-July 1, 1922;* Grad. Asst. in Med., M. G. H., 1922; H. O., So. Dept., B. C. H., 1922-23; Visit. Phys., St. Luke's Hosp., New Bedford, Mass.; Visit. Phys., *ibid.;* in practice, New Bedford, Mass.

WOODS, ALAN CHURCHILL
A.B., Johns Hopkins, 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915;* Fellow and Assoc. in Exper. Med. and Asst. in Ophthal., Univ. of Pa.; Major, M. C., U. S. Army, 1917-19; Assoc. Prof. Clin. Ophthal., Johns Hopkins; Visit. Ophthal., *ibid.;* in practice (Ophthalmology), Baltimore, Md.

WOODWARD, HARRY WHITING
A.B., Bowdoin, 1910; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., March 1, 1915-July 1, 1916;* H. O., Boston Lying-In Hosp., 1916; Capt., Royal Army Med. Corps; Visit. Staff, Surg. Services, Glockner Hosp. and Sanatorium, Bethel Hosp., Colorado Springs, Colorado; Surg. Consult., Modern Woodmen of America San., Colorado Springs; in practice, Colorado Springs.

WRIGHT, LESLIE H.
M.D., Univ. of Vt., 1918; H. O., Naval Hosp., Chelsea, 1918-19; Transport Serv., May 1, 1919-Sept. 1, 1919; Asst. Phys., Conn. State Hosp., Sept., 1919-July, 1920; Private Practice, July, 1920-May, 1922; Pathol., Monson State Hosp., May, 1922-Dec., 1924; Asst. in Hosp. Adm., Harv. Sch. Public Health, 1927-28; *Second Asst. Supt., P. B. B. H., Dec. 1, 1924-Dec. 1, 1927; First Asst. Supt., ibid., Dec. 1, 1927-July 1, 1930;* Supt., Genesee Hosp., Rochester, New York.

WRIGHT, MARY
A.B., Vassar, 1911; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H., July 1, 1917-Sept. 17, 1918;* H. O. (Pediatrics), M. G. H., 1918-19; H. O., St. Louis Children's Hosp., 1919; Asst. Res., St. Louis Children's Hosp., 1919-20; Phys. to Children's Med. O. P. D., M. G. H.; Attend. Phys., N. E. Hosp. for Women and Children; in practice, Boston. *Died, Jan. 13, 1927.*

WULFFAERT, FRANZ RENE
B.A., Brussels, 1906; B.S., *ibid.*, 1907; M.D., *ibid.*, 1912; Asst. Phys., St. John's Hosp., Brussels, 1913; Res. Anesthetist, St. Mary's Hosp., London, Eng., 1915; *Pathol. H. O., P. B. B. H., Jan. 15-July 1, 1918; Res. Pathol., ibid., July 1, 1918-March 31, 1919;* Asst. in Pathol., Harv., 1918-19; Asst. Surg. (Gynecology), St. John's Hosp., Brussels, 1919-23; Asst. Surg., Univ. Brussels, 1923-25; in practice, Brussels, Belgium.

WYATT, TYREE C.
A.B., Wake-Forest Coll., 1920; M.D., Syracuse Univ., 1922; Dept. of Pathol., *ibid.*, 1922-27; *Med. H. O., P. B. B. H., 1927-28;* H. O., N. Y. Nursery and Child's Hosp., 1929; Attend. Pathol., *ibid.;* Instr. in Pediatrics, Cornell Univ. School of Med.; Asst. Pediatrician, N. Y. Nursery and Child's Hosp.; Asst. Pediatrician, Syracuse Mem. Hosp.

WYNN, JAMES
B.S., Indiana Univ., 1917; M.D., *ibid.*, 1919; M.D., *cum laude, ibid.*, 1920; *Asst. Res. Phys., P. B. B. H., July 1, 1920-Oct. 4, 1921;* Alternate on Visit. Staff, Indianapolis City Hosp., Indianapolis; Research Fellow, Indiana Univ. Med. Sch. *Died at Colorado Springs, Colo., Dec. 4, 1931.*

YOAKAM, WAYNE ADDISON
B.S., Denison Univ., 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921;* Obst. H. O. Boston Lying-In Hosp., 1921-22; Henry Ford Hosp., 1922-25; Assoc. Attend. Obstetrician, Providence Hosp. and Herman Keifer Hosp.; in practice, Detroit, Michigan.

YOUNG, RICHARD HART
B.S., Univ. of Chicago, 1926; M.A., Univ. of Nebraska, 1930; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H., July 1, 1930-Nov. 1, 1931;* Neurol. H. O., Bellevue Hosp., N. Y., Jan.-Oct., 1932; Henry Phipps Psychiatric Clin., Johns Hopkins Hosp.

Former Voluntary Graduate Assistants

ARMITAGE, GEORGE
M.B., Ch.B., Leeds, 1921; Surg. Tutor, Univ. of Leeds; Rockefeller Foundation Fellow, 1929-30; *P. B. B. H., Surg., Nov. 1929-Nov. 1930;* Leeds, England.

ASHER, ARTHUR GRAHAM
M.D., Rush Medical College, Chicago; *P. B. B. H., Med., Oct., 1930-Oct., 1931;* Kansas City, Mo.

BAGDASAR, DIMITRI
M.D., Bucharest, 1922; Physician-in-chief, Hospital of Nervous Diseases, Jimbolia; *P. B. B. H., Surg., Oct. 1927-Oct. 1928;* Jimbolia, Roumania.

BARTRAM, EDWARD ALEXANDER
M.D., Univ. of Western Ontario, London, Canada, 1928; *P. B. B. H., Med., Oct., 1931-Aug., 1932.*

BELL, DONALD C.
M.D., Columbia, 1914; *P. B. B. H., Med., 1923-24;* Asst. Clin. Prof. Cleveland, Ohio.

BREMER, FREDERIC
M.D., Univ. of Brussels; C.R.B., Foundation Fellow, 1920; *P. B. B. H., Surg., Oct., 1920-April, 1921.*

BRILL, I. C.
M.D., Columbia, 1914; *P. B. B. H., Med., 1923-24;* Asst. Clin. Prof. Med., Univ. of Oregon.

BRUGSCH, HEINRICH
M.D., Berlin, 1927; Fellow of Akademische and Austausch-dients; *P. B. B. H., Med. 1929-30.*

COURVILLE, CYRIL B.
M.D., College Med. Evangelists, 1925; Interne, Los Angeles Gen. Hosp.; *P. B. B. H., Surg., Aug., 1927-Jan., 1928;* Loma Linda, California.

DECAMPS, NESTOR
M.D., Brussels, 1925; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med., 1926-27.*

DECOPPET, GASTON
M.D., Univ. of Berne, 1924; Chef de clinique, Prof. de Quervain's service, Berne; Rockefeller Foundation Fellow, 1929-30; *P. B. B. H., Surg., Sept., 1929-Aug., 1930;* Inselspital, Berne, Switzerland.

Deery, Edwin M.
M.D., Harv., 1926; *P. B. B. H., Surg., Nov., 1928-Sept., 1929;* College of Physicians and Surgeons, New York.

Fang, I-Chi
M.D., Peking Union Medical College, 1922; *P. B. B. H., Administration, 1931.*

Fincher, Jr., Edgar F.
M.D., Emory, 1925; Interne, Piedmont Hosp., 1925-26; *P. B. B. H., Surg., June-Sept., 1926;* Atlanta, Georgia.

Fried, Boris M.
M.D., Imperial Nicholas Univ., Saratov, 1914; *P. B. B. H., Surg.*

Gairdner, Alan C.
B.Ch., Oxon, 1926; F.R.C.S., Eng., 1928; *P. B. B. H., Surg., Nov., 1928-Jan., 1929;* London Hosp., London, England.

Grant, Francis C.
M.D., Univ. of Penn., 1919; *P. B. B. H., Surg., Oct., 1925-May, 1926;* Philadelphia, Pennsylvania.

Groff, Robert Armand
M.D., Univ. of Pennsylvania, 1928; *P. B. B. H., Surg., 1931.*

Halpenny, Attracta
L.R.C.S., Royal Coll. Phys. and Surg., Dublin; Purefoy Mem. Scholar, Coll. of Surgs., Dublin; *P. B. B. H., Surg., Sept.-Dec., 1929;* Dublin, Ireland.

Holland, Clyde
M.S., C.M., Dalhousie, 1923; Fellow of Rockefeller Foundation; *P. B. B. H., Med., 1929-30.*

Isaacs, Raphael
M.D., Cincinnati, 1918; *P. B. B. H., Med., 1922-23;* Asst. Prof. of Medicine, Univ. of Michigan.

Kaplan, Abraham
M.D., Harvard, 1927; *P. B. B. H., Surg., 1931.*

Kindall, Lloyd E.
M.D., Univ. of Colorado, 1913; *P. B. B. H., Urol., Jan.-June, 1926;* Oakland, California.

Kottke, Elmer E.
M.D., Northwestern Univ., Chicago; *P. B. B. H., Med., Oct., 1930-May, 1931;* Des Moines, Iowa.

Kredel, Frederick E.
M.D., Johns Hopkins, 1929; *P. B. B. H., Surg., June 15-Sept. 15, 1927;* and *June 15-Sept. 15, 1928.*

KUBIE, LAWRENCE S.
M.D., Johns Hopkins, 1921; *P. B. B. H., Surg., Sept.-Oct., 1927;* New York City.

LAWS, CLARENCE L.
M.D., Emory, 1930; Assistant Resident Physician, Vanderbilt University Hosp., Nashville, Tenn., 1931-32; *P. B. B. H., Med., Aug., 1932-May, 1933.*

LEE, FERDINAND C.
M.D., Johns Hopkins, 1919; Surg. Interne, Sept., 1919-Sept., 1920; *P. B. B. H., Surg., June-Sept., 1923;* Baltimore, Maryland.

LEHMAN, WALTER
Prof. Surg., Chirurgische Univ. Clin., Göttingen, Germany; *P. B. B. H., Surg., Jan.-April, 1926.*

LIST, CARL FELIX
M.D., Berlin, Germany, 1926; *P. B. B. H., Surg., 1931;* Berlin, Germany.

LYNCH, RALPH
M.D., Pennsylvania, 1923; *P. B. B. H., Med., 1927-28;* Pittsburgh, Pennsylvania.

MATTON, MARCEL
M.D., Ghent, 1929; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med., 1924-25.*

MEACHEN, JOHN W.
M.D., Harv., 1922; *P. B. B. H., Roentgenology, 1924;* Roentgenologist, Huntington Memorial and Palmer Memorial Hospitals.

MORELLE, JEAN
M.D., Louvain Univ., 1924; Asst. in Surg., Louvain; C.R.B. Educational Foundation Fellowship, 1925-26; *P. B. B. H., Surg., Oct., 1925-June, 1926;* Louvain, Belgium.

MUANGAM, P.
P. B. B. H., Roentgenology, 1927. Sent by Government of Siam for study.

ODY, FRANCOIS
M.D., Univ. of Geneva, 1922; Chef du second service de chirurgie (au concours) de l'Hopital Cantonal de Geneve; Rockefeller Foundation Fellow, 1930-31; *P. B. B. H., Surg., 1930-31.*

OLJENICK, IGNATIUS
Med. Docts. Arts, Univ. of Amsterdam, 1911; Rockefeller Foundation Fellow, 1927-29; *P. B. B. H., Surg., Mar., 1927-Mar., 1929;* Wilhelmina Gasthuis, Amsterdam.

PATTISON, ALFRED RICHARD DENIS
M.B., B.S., Durham, England, 1929; Surg. Registrar, Resident Medical Officer, Royal Victoria Infirmary, Newcastle upon Tyne, England; *P. B. B. H., Surg., March-Sept., 1932.*

Petit-Dutaillis, Daniel
Interne and Chef de clinique, Hospitaux de Paris; *P. B. B. H., Surg., April 24-June 7, 1930.*

Reynolds, Lloyd R.
M.D., Stanford, 1919; Surg. Res., Stanford Hosp., 2 yrs.; *P. B. B. H., Surg., Oct., 1923-Jan., 1924.*

Rives, Johannes
Rockefeller Foundation Fellow, Esthonia; *P. B. B. H., Surg., 1931.*

Rosenblum, Harold Heber
M.D., Univ. of California Med. School; *P. B. B. H., Med., Oct., 1931-July, 1932.*

Schaltenbrand, Georg
M.D., Univ. of Munich, 1923; Rockefeller Foundation Fellow, 1925-27; *P. B. B. H., Surg., Jan., 1926-March, 1927.*

Schlesinger, Benno
Univ. of Berlin, Germany; *P. B. B. H., Surg., 1931.*

Schonbauer, Leopold
M.D., Univ. of Prague, 1914; Assoc. with Prof. Eiselberg, Vienna, 5 years; *P. B. B. H., Surg., Nov., 1924-Jan., 1925.*

Scriver, Walter de M.
M.D., McGill, 1921; Fellow of National Research Council; *P. B. B. H., Med., 1925-26.*

Shanks, Major
P. B. B. H., Pathology, 1927; Indian Medical Service.

Stammers, F. A. R.
M.B., Ch.B., Univ. of Birmingham, 1923; M.R.C.S., L.R.C.P., England, 1925; Rockefeller Foundation Fellow, 1928-29; *P. B. B. H., Surg., Oct.-Nov., 1929;* Asst. Surgeon, Birmingham General Hospital, Birmingham, England.

Starr, M. P.
M.D., Rush, 1922; *P. B. B. H., Med., 1923-24;* Asst. Prof. of Med., Northwestern Univ.

Van Dessel, Arthur
M.D., Univ. of Louvain, 1920; C.R.B., Educational Foundation Fellowship; *P. B. B. H., Surg., Feb., 1925-July, 1925.*

Wörner, Edward
M.D., Univ. of Munich, Germany; *P. B. B. H., Roentgenology, 1932;* Munich, Germany.

Zeitlin, Alexander
M.D., Univ. of Warsaw, 1917; Assoc. Surg., Surgical Clin., North Caucasian Univ., Rostov; *P. B. B. H., Surg., Dec., 1930-Jan., 1931.*

Zubiran, Salvador
M.D., Univ. of Mexico, 1923; *P. B. B. H., Med., 1923-24;* Prof. Public Health, Univ. of Mexico.

Register of Former Members of the Corporation

Elected		
May 8, 1902	Alexander Cochrane	Died April 10, 1919
May 8, 1902	Eben Draper	Died April 9, 1914
May 8, 1902	Henry S. Howe	Died March 2, 1931
May 8, 1902	Walter Hunnewell	Died September 30, 1921
May 8, 1902	William R. Trask	Died February 1, 1933
Oct. 2, 1902	Augustus Hemenway	Resigned September 12, 1919
Appointed		
June 16, 1909	*John P. Reynolds	Died December 9, 1920
Elected		
Feb. 7, 1918	Francis L. Higginson	Resigned July 8, 1932
Feb. 7, 1918	Charles F. Choate, Jr.	Resigned March 13, 1924
Dec. 11, 1919	Louis A. Frothingham	Died August 23, 1928
Feb. 12, 1920	William H. Wellington	Died February 2, 1925

* Appointed by the Governor of Massachusetts.

Officers of the Institution, 1933

President

CHARLES P. CURTIS

Treasurer

EDMUND D. CODMAN

Secretary

LAURENCE H. H. JOHNSON

MEMBERS OF THE CORPORATION

Appointed			
Jan. 5, 1921	*WILLIAM AMORY	179 Commonwealth Ave.,	Boston
Mar. 26, 1925	HARRY L. BAILEY	93 Franklin St.,	Boston
May 8, 1902	EDMUND D. CODMAN	27 Kilby St.,	Boston
May 14, 1931	CHARLES A. COOLIDGE, JR.	50 Federal St.	Boston
Apr. 15, 1915	CHARLES P. CURTIS	71 Ames Building,	Boston
Mar. 25, 1931	RICHARD C. CURTIS	47 Ames Building,	Boston
Mar. 26, 1925	PAUL E. FITZPATRICK	104 Kingston St.,	Boston
June 16, 1909	†IRVIN McD. GARFIELD	30 State St.,	Boston
May 8, 1902	LAURENCE H. H. JOHNSON	27 Kilby St.,	Boston
Apr. 13, 1933	THEODORE LYMAN	105 Heath St.,	Chestnut Hill
Mar. 27, 1924	RICHARD S. RUSSELL	50 State St.,	Boston

STANDING COMMITTEES OF THE CORPORATION

Building Committee

WILLIAM AMORY, *Chairman*
CHARLES P. CURTIS
LAURENCE H. H. JOHNSON
CHARLES A. COOLIDGE, JR.
JOSEPH B. HOWLAND, M.D., *Secretary*

Auditing Committee

THEODORE LYMAN

* Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 1, 1936.

† Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 11, 1939.

Committee on Finances

William Amory
Edmund D. Codman
Richard C. Curtis
Laurence H. H. Johnson
Richard S. Russell

Committee on Heat, Light, and Power

William Amory
Edmund D. Codman
Charles P. Curtis

Committee on Nominations

Charles P. Curtis
Edmund D. Codman

Committee on Rules

Charles P. Curtis
Edmund D. Codman
Irvin McD. Garfield

VISITING COMMITTEE FOR 1932

Charles P. Curtis	January
Paul E. Fitzpatrick	February
Richard C. Curtis	March
William R. Trask	April
Laurence H. H. Johnson	May
Francis L. Higginson	June
Edmund D. Codman	July
Charles P. Curtis	August
Irvin McD. Garfield	September
Harry L. Bailey	October
William Amory	November
Richard S. Russell	December

VISITING COMMITTEE FOR 1933

Charles P. Curtis	January
Paul E. Fitzpatrick	February
Richard C. Curtis	March
Richard S. Russell	April
Laurence H. H. Johnson	May
Charles P. Curtis	June
Edmund D. Codman	July
Charles A. Coolidge, Jr.	August
Irvin McD. Garfield	September
Harry L. Bailey	October
William Amory	November
Charles P. Curtis	December

VISITING COMMITTEE FOR 1934

Theodore Lyman	January
Paul E. Fitzpatrick	February
Richard C. Curtis	March
Richard S. Russell	April
Laurence H. H. Johnson	May
Charles P. Curtis	June
Edmund D. Codman	July
Charles A. Coolidge, Jr.	August
Irvin McD. Garfield	September
Harry L. Bailey	October
William Amory	November
Charles P. Curtis	December

EXECUTIVE COMMITTEE OF THE STAFF

Henry A. Christian, M.D.
S. Burt Wolbach, M.D.
Elliott C. Cutler, M.D.
Joseph B. Howland, M.D., *Secretary*

ADMINISTRATIVE DEPARTMENT

Superintendent

Service began	
May 1, 1919	Joseph B. Howland, M.D.

Assistant Superintendents

July 1, 1930	Charles L. Clay, M.D.
July 20, 1930	Norbert A. Wilhelm, M.D.

Executive Assistant

May 14, 1927	Helen Goodwin, R.N.

BOARD OF CONSULTATION

Appointed	
Mar. 25, 1912	Walter B. Cannon, M.D., *Consulting Physiologist*
Mar. 25, 1912	Otto Folin, Ph.D., *Consulting Chemist*
Mar. 8, 1928	George R. Minot, *Consulting Physician*
Apr. 12, 1923	Hans Zinsser, M.D., *Consulting Bacteriologist*
Oct. 13, 1932	Frank R. Ober, M.D., *Consulting Orthopedic Surgeon*
Oct. 13, 1932	E. Lawrence Oliver, M.D., *Consulting Dermatologist*
Jan. 1, 1933	Channing Frothingham, M.D., *Consulting Physician*
Jan. 1, 1933	Leroy M. S. Miner, D.M.D., *Consulting Dental Surgeon*

MEDICAL DEPARTMENT

Service began	
May 1, 1912	Henry A. Christian, M.D., *Physician-in-Chief*
Sept. 1, 1922	Reginald Fitz, M.D., *Physician*
July 1, 1928	Clifford L. Derick, M.D., *Physician*

July	1, 1915	James P. O'Hare, M.D., *Senior Associate in Medicine*
Aug.	8, 1919	Samuel A. Levine, M.D., *Senior Associate in Medicine*
May	24, 1928	Joseph C. Aub, M.D., *Senior Associate in Medicine*
Dec.	12, 1912	Nathaniel K. Wood, M.D., *Associate in Medicine*
July	1, 1915	George P. Denny, M.D., *Associate in Medicine*
Sept.	1, 1915	I. Chandler Walker, M.D., *Associate in Medicine*
Sept.	12, 1919	Donald J. MacPherson, M.D., *Associate in Medicine*
Nov.	12, 1925	Gustave P. Grabfield, M.D., *Associate in Medicine*
May	10, 1926	William P. Murphy, M.D., *Associate in Medicine*
May	10, 1926	Edward S. Emery, Jr., M.D., *Associate in Medicine*
Sept.	1, 1931	Randall Clifford, M.D., *Associate in Medicine*
Dec.	8, 1932	Robert T. Monroe, M.D., *Associate in Medicine*
Nov.	1, 1927	Lyman H. Hoyt, M.D., *Junior Associate in Medicine*
Jan.	24, 1929	Harry H. Blotner, M.D., *Junior Associate in Medicine*
Dec.	22, 1930	John M. Flynn, M.D., *Junior Associate in Medicine*
Sept.	1, 1931	Marshall N. Fulton, M.D., *Junior Assoc. in Medicine*
Dec.	8, 1932	William T. Salter, M.D., *Junior Associate in Medicine*
Sept.	1, 1931	Richard G. Hahn, M.D., *Resident Physician*
July	1, 1931	William K. Purks, M.D., *Assistant Resident Physician*
Sept.	1, 1931	Paul H. Wosika, M.D., *Assistant Resident Physician*
July	1, 1932	Edward A. Bartram, M.D., *Assistant Resident Physician*
July	1, 1932	Richard D. Friedlander, M.D., *Asst. Res. Physician*
July	1, 1932	Eugene C. Eppinger, M.D., *Asst. Resident Physician*

SURGICAL DEPARTMENT

Service began		
Sept.	1, 1932	Elliott C. Cutler, M.D., *Surgeon-in-Chief*
Oct.	13, 1932	Harvey Cushing, M.D., *Surgeon-in-Chief Emeritus*
May	1, 1912	John Homans, M.D., *Surgeon*
Oct.	1, 1912	David Cheever, M.D., *Surgeon*
June	19, 1916	William C. Quinby, M.D., *Urological Surgeon*
June	15, 1924	Francis C. Newton, M.D., *Senior Associate in Surgery*
Mar.	8, 1928	Louise Eisenhardt, M.D., *Junior Associate in Surgery*
Oct.	1, 1928	Harlan F. Newton, M.D., *Junior Associate in Surgery*
Aug.	15, 1932	Cornelius B. Wood, M.D., *Junior Associate in Surgery*
Apr.	24, 1930	Donald MacDonald, M.D., *Junior Associate in Oto-Laryngology*
Sept.	1, 1932	William V. Cox, M.D., *Junior Associate in Surgery*
Sept.	1, 1932	John C. Eckels, M.D., *Junior Associate in Surgery*
Sept.	1, 1932	Robert Zollinger, M.D., *Resident Surgeon*
Apr.	10, 1932	Richard U. Light, M.D., *Assistant Resident Surgeon*
Aug.	1, 1932	Lawrence Howard, M.D., *Fellow in Urology*
Sept.	1, 1932	Ernest F. Bright, M.D., *Assistant Resident Surgeon*
Nov.	1, 1932	Samuel R. Snodgrass, M.D., *Assistant Resident Surgeon*
Mar.	1, 1933	Charles D. Branch, M.D., *Assistant Resident Surgeon*

PATHOLOGICAL DEPARTMENT

Service began		
Dec.	1, 1916	S. Burt Wolbach, M.D., *Pathologist*
Aug.	1, 1932	George M. Hass, M.D., *Resident Pathologist*

ROENTGENOLOGICAL DEPARTMENT

Service began		
May 15, 1922	Merrill C. Sosman, M.D., *Roentgenologist*	
Jan. 12, 1928	Edward C. Vogt, M.D., *Associate in Roentgenology*	
Oct. 1, 1932	Joseph H. Marks, M.D., *Asst. Resident in Roentgenology*	

DENTAL SURGEON

Service began	
Oct. 7, 1929	Moses S. Strock, D.M.D.

MEDICAL HOUSE OFFICERS

Service began		*Service ended*
Nov. 1, 1930	Robert Fleming, M.D.	Mar. 1, 1932
Nov. 1, 1930	Philip Shambaugh, M.D.	Mar. 1, 1932
Feb. 15, 1931	Harry C. Buhrmester, Jr., M.D.	Nov. 1, 1931
Mar. 1, 1931	Eugene C. Eppinger, M.D.	July 1, 1932
Mar. 1, 1931	James B. McLester, M.D.	Mar. 1, 1932
Mar. 1, 1931	Selwyn Steel, M.D.	July 1, 1932
May 28, 1931	Peter A. H. Midelfart	July 1, 1932
Oct. 1, 1931	William Evans, M.D.	July 1, 1932
July 1, 1931	Lowrey F. Davenport, M.D.	Nov. 1, 1932
July 1, 1931	Robert J. Parsons, M.D.	Nov. 1, 1932
July 1, 1931	Howard A. Van Auken, M.D.	Nov. 1, 1932
		Service will end
Nov. 1, 1931	Roberto F. Escamilla, M.D.	Mar. 1, 1933
Nov. 1, 1931	Milton H. Clifford, M.D.	Mar. 1, 1933
Nov. 1, 1931	Robert E. Glendy, M.D.	Mar. 1, 1933
Mar. 1, 1932	Maurice A. Schnitker, M.D.	July 1, 1933
Mar. 1, 1932	Charles F. Walcott, M.D.	July 1, 1933
Mar. 1, 1932	Christian F. Midelfart, M.D.	July 1, 1933
July 1, 1932	Eugene A. Stead, Jr., M.D.	Nov. 1, 1933
July 1, 1932	John G. Gibson, M.D.	Nov. 1, 1933
July 1, 1932	William R. Hallaran, M.D.	Nov. 1, 1933
Nov. 1, 1932	George L. Weller, Jr., M.D.	Mar. 1, 1934
Nov. 1, 1932	Arthur B. Richter, M.D.	Mar. 1, 1934
Nov. 1, 1932	Paul H. Noth, M.D.	Mar. 1, 1934
Mar. 1, 1933	Harold D. Levine, M.D.	July 1, 1934
Mar. 1, 1933	Daniel W. Myers, M.D.	July 1, 1934
Mar. 1, 1933	Myron J. Tremaine, M.D.	July 1, 1934

SURGICAL HOUSE OFFICERS

Service began		*Service ended*
Oct. 1, 1930	Courtney C. Bishop, M.D.	May 1, 1932
Oct. 1, 1930	Lee G. Kendall, M.D.	Feb. 1, 1932
Jan. 1, 1931	Charles M. Gray, M.D.	May 1, 1932

PETER BENT BRIGHAM HOSPITAL

Service began			*Service ended*	
Apr.	1, 1931	Arthur N. Berry, M.D.	May	1, 1932
Apr.	1, 1931	John W. Kane, M.D.	Aug.	1, 1932
Apr.	1, 1931	Stanley Bysshe, M.D.	Aug.	1, 1932
July	1, 1931	Daniel V. Troppoli, M.D.	Nov.	1, 1932
July	1, 1931	Paul A. Younge, M.D.	Nov.	1, 1932
			Service will end	
Oct.	1, 1931	Jean J. DuMortier, M.D.	Feb.	1, 1933
Oct.	1, 1931	David W. Gaiser, M.D.	Feb.	1, 1933
Jan.	1, 1932	Frederick H. Shillito, M.D.	May	1, 1933
Jan.	1, 1932	Darwin E. Bennett, M.D.	May	1, 1933
Apr.	1, 1932	Philip Shambaugh, M.D.	Aug.	1, 1933
Apr.	1, 1932	Edward M. Drissen, M.D.	Aug.	1, 1933
July	1, 1932	Peter A. H. Midelfart, M.D.	Nov.	1, 1933
July	1, 1932	Robert L. Patterson, Jr., M.D.	Nov.	1, 1933
Oct.	1, 1932	Samuel M. Dupertuis, M.D.	Feb.	1, 1934
Oct.	1, 1932	George F. Wilkins, M.D.	Feb.	1, 1934
Mar.	1, 1933	Storer P. Humphreys, M.D.	July	1, 1934
Mar.	1, 1933	Carl W. Walter, M.D.	July	1, 1934

PATHOLOGICAL HOUSE OFFICERS

July 1, 1932 Frank L. Horsfall, Jr., M.D.
Jan. 1, 1933 Irving D. Thrasher, M.D.

HOUSE OFFICER IN ROENTGENOLOGICAL DEPARTMENT

July 1, 1932 Carter C. Hamilton, M.D.

DENTAL HOUSE OFFICER

July 1, 1932 Harry Stone, D.M.D.

SCHOOL OF NURSING

Advisory Committee

Charles P. Curtis
William Amory
Joseph B. Howland, M.D., *Supt.*
Carrie M. Hall, R.N., *Principal*
Henry A. Christian, M.D.
Elliott C. Cutler, M.D.
Pres. Ada Comstock
Mrs. George C. Shattuck
Mrs. Collins Graham

Superintendent of Nurses and
Principal of the School of Nursing

July 1, 1912 Carrie M. Hall, R.N.

Assistant Superintendent of Nurses

June 1, 1928 Mary C. Gilmore, R.N. (on leave of absence)

Acting Assistant Superintendent of Nurses

Ruth Sleeper, B.S., R.N.

Instructor in Theory

Sept. 1, 1931 Martha O. Sayles, B.S., R.N.

Instructor in Practice

Sept. 1, 1929 Bernice J. Sinclair, R.N.

Instructor in Operating Room Technique

Nov. 21, 1932 Ruth Adams, R.N.

Supervisors

June 1, 1929 Helen A. Newhall, A.B., R.N.
Sept. 6, 1932 Frances M. Daggett, R.N.
Oct. 13, 1927 Rachel T. Adams, R.N.
Nov. 20, 1932 Catherine Richards, R.N.

Night Supervisors

July 1, 1931 Mary F. Loughlin, R.N.
Mar. 2, 1933 Florence Cruickshank, R.N.

Chief—Social Service Department

Aug. 17, 1914 Alice M. Cheney, R.N.

Dietitian

Aug. 1, 1931 Gertrude McDonald, B.S.

Apothecary

Dec. 2, 1912 Harry H. Coman

Clerk

Apr. 29, 1912 Lida E. Crawford

Record Librarians

House Records

June 16, 1922 Edith M. Robbins

Out-Patient Records

Mar. 2, 1931 Vincenza Colarusso

Housekeeper

Nov. 1, 1912 Elizabeth M. Packard

Chief—Mechanical Departments

Oct. 21, 1911 John A. Aitken

FORM OF BEQUEST

I give and bequeath to the Peter Bent Brigham Hospital, a corporation established under the laws of the Commonwealth of Massachusetts, the sum of dollars, the same to be used for the furtherance of its charitable work.

PURCHASING BUREAU
BOSTON COUNCIL OF SOCIAL AGENCIES